

PRODUCT CATALOG 综合产品目录

杭州安久传动有限公司

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www.angdrive.com



PRODUCT CATALOG
综合产品目录

- 混合式步进电机 Hybrid Stepper Motor
- 步进伺服系统 Step Servo System
- 混合式直线电机 Hybrid Linear Motor
- 行星减速步进电机 Planetary Gearbox Stepper Motor
- 步进伺服一体机 Integrated Drive
- 磁滞制动器 Hysteresis Brake
- 直流无刷电机 DC Brushless Motor
- 行星减速无刷电机 Planetary Gearbox Brushless Motor
- 伺服电机 Servo Motor
- 滚珠丝杆直线伺服电机 Ball Screw Linear Servo Motor
- 无框伺服电机 Frameless Servo Motor
- 外转子直流无刷电机 Outer Roter BLDC Motor
- 低压伺服一体机 Integrated Low Voltage Servo

杭州安久传动有限公司

Hangzhou Ang Drive Co.,Ltd.

我们立足于长期的精心科研和先进的管理理念，利用精良的生产和检测设备，以高品质的产品和完善周到的服务争取市场，帮助客户在全球范围内取得成功。

Based on constant research, advanced management, sophisticated production and testing equipment, we develop market with high-quality product and thoughtful service, so as to help customer achieve success all over the world.



企业简介

杭州安久传动有限公司主要经营步进电机、直流电机、伺服电机以及相关传动产品。

公司严格执行质量管理体系，从开发设计，原料采购，进料检验、一贯化制程到成品包装出货，皆层层严格把关，期望为广大客户提供高性能、低成本、更适合的专业传动方案。

我们坚持优质产品、优质服务，为客户创造价值，让客户满意。

Company Introduction

ANG Drive is specialized in stepper motor, DC motor, servo motor and related components.

The company strictly implements the quality management system from design & development, raw material procurement, incoming inspection, consistent process to the finished product packaging & delivery, and expects to provide our customers with high performance, competitive price and more suitable transmission solutions.

We insist on high-quality products and services to create value for customers and satisfy customers.



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微电机运动控制方案专家
The Expert Of Micro Motor Control Solutions

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APPLICATION FIELD

应用领域

安防 Security



球机系统、云台系统、视频监控系统
Ball machine system, pan tilt system, video surveillance system



办公室自动化 Office Automation

复印机、扫描仪、打印机、多功能一体等
Copier and scanner, printer, multifunctional integrated machine

舞台灯光 Stage lighting



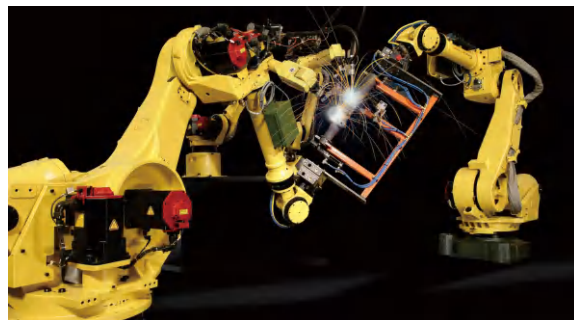
调焦、光射方向控制、色变和光斑调控、灯光特效等
Focus, light direction control, color change and spot control, lighting effects

银行领域 Banking sector



点钞机、票据加工、信用卡制造、ATM机等
Banknote counting machines, bills processing, credit card manufacturing, ATM machines, etc.

工业 Industry



纺织系统、包装系统、数控机床、流水线设备和机器人等
Textile machine, packaging system, CNC machine, assembly line equipment and robot

医疗 Medical treatment



血液分析仪、化学分析仪、CT扫描仪等
Hematology analyzer, chemical analyzer, CT scanner



通信 Communication

信号调节、移动天线定位等
Signal conditioning, mobile antenna positioning

汽车 Automobile



EGR阀、SCR阀、进气系统阀等
EGR valve, SCR valve, intake system valve



轨道交通 Rail traffic

闸机、ETC、自动门等
Gate machine, ETC, Automatic door

FEATURES OF STEPPER MOTOR

步进电机的特性

01 - 精准的位置控制 Precise position control

依照输入脉冲的数量，确定轴滚动的角度，位置误差非常小且不累积特点。

According to the number of input pulses, the angle of shaft rolling is determined. The position error is very small and does not accumulate.

02 - 精确的转速 Precise speed

步进电机的转速取决于输入电脉冲的频率，可以实现精确控制和方便调节。因此被广泛的应用于各种运动控制领域。

The speed of stepper motor depends on the frequency of input electrical pulse, which can achieve precise control and convenient adjustment. Therefore, it is widely used in various fields of motion control.

03 - 正向/反向转动、急停与锁定动能 Forward / reverse rotation, emergency stop and locked kinetic energy

在整个速度范围内都可以实现对电机力矩和位置的有效控制，包括静力矩。在电机锁定状态下（电机绕组中存在电流，而外部没有旋转的脉冲指令输入），仍然保持一定的力矩输出。

Effective control of motor torque and position can be achieved in the whole speed range, including static torque. When motor is locked(there is current in the motor winding, but there is no external rotating pulse instruction input), it still maintains a certain torque output.

04 - 低转速条件下的精准位置控制 Precise position control under low speed condition

步进电机不需要借助减速箱的调节，就可以在非常低的转速下平稳运行，同时输出较大的力矩，避免了功效的损耗和角度位置偏差，同时降低了成本，节省空间。

Stepper motor can run smoothly at very low speed without the adjustment of gearbox. At the same time, it can output larger torque, which avoids the loss of efficiency and the deviation of angle and position. Also, it reduces the cost and saves space.

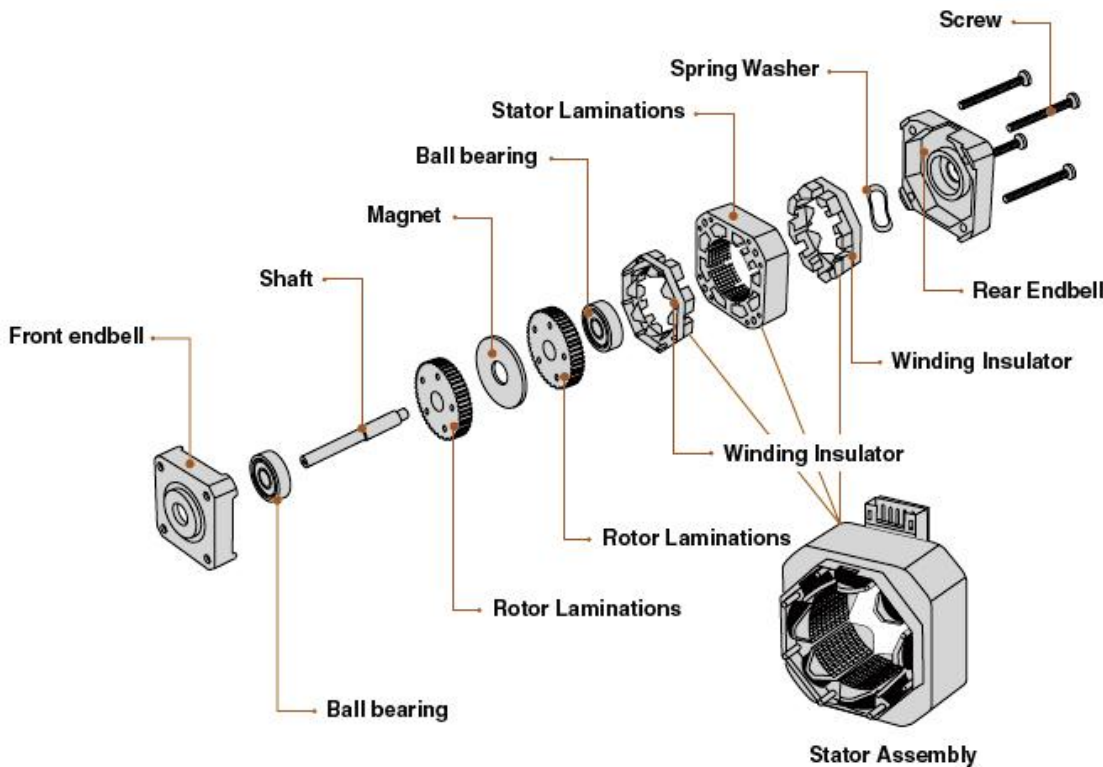
05 - 更长的使用寿命 Longer service life

与普通的直流电机相比，无需依靠电刷和换向器来调节相位差，从而减少摩擦，延长电机的使用寿命。

Compared with ordinary DC motors, brushes and commutators are not needed to adjust the phase difference, thus reducing friction and prolonging the service life of the motor.

BASIC STRUCTURE AND VIBRATION NOISE

步进电机基本结构和振动噪音



步进电机在空载运行情况下，当电机的运行频率接近或等于电机转子的固有频率时会发生共振，严重的会发生失步现象。

When stepper motor runs in no-load condition, resonance will occur when the operating frequency of the motor is close to or equal to the natural frequency of the motor rotor. The more serious phenomenon is out of step.

针对共振的几种解决方案 Solutions for resonance

A. 避开振动区 Avoid vibration area

使电机的工作频率不落在振动范围内

Make sure the working frequency of the motor does not fall within the vibration range.

B. 采用细分的驱动模式 Uses subdivided driving mode

使用微步驱动模式，提高电机的每步分辨率，从而降低振动。可以通过调整电机的相电流比来实现。微步并不会增加步距角度的精度，却能使电机运行更加平稳，噪音更小。一般电机在微步运行时，力矩会比整步小15%，而采用正弦波电流控制时，力矩将减小30%。

The micro step driving mode is adopted to improve the resolution ratio of each step of the motor and reduce vibration. It can be realized by adjusting the phase current ratio of the motor. Micro step does not increase the accuracy of step angle, but makes the motor run more smoothly and has less noise. The torque of ordinary micro-step motor will be 15% smaller than that of the whole step, while the torque will be reduced by 30% when using sinusoidal current control.

HYBRID STEPPER MOTOR SERIES

混合式步进电机系列

01

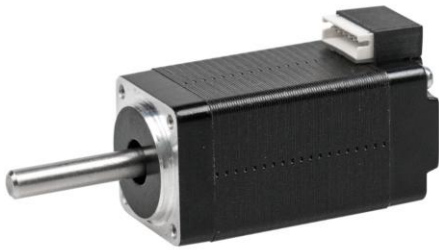


混合式步进电机系列 Hybrid Stepper Motor Series

混合式步进电机是综合了永磁式和反应式的优点而设计的步进电机。它又分为二相、三相和五相，两相步进角一般为1.8/0.9°，三相步进角一般为1.2°，而五相步进角一般为0.72°。混合式步进电机在力矩、速度、分辨率等方面性能优异。我们的混合式步进电机有：标准混合式步进电机、高精度混合式步进电机、超平滑混合式步进电机。HB电机有基本型、编码器型、IP65型、刹车型、齿轮型等多种类型。

A hybrid stepper motor or a HB stepper motor is a combination of the features of the Variable Reluctance Stepper Motor and Permanent Magnet Stepper Motor. HB Stepper motors are the easiest devices for precise positioning control. They are widely being used in various application for position and speed via all kinds of control signals such as digital, analog, communication etc. HB motors come in different types including the basic type, encoder type, IP65 type, brake type and geared type.

NEMA8(□20mm)2相1.8°-8HY 2 Phase



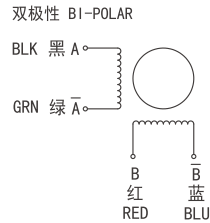
Phases	2
Steps/Revolution	±5%
Step Accuracy	6N(1.3 Lbs.)Push 25N(5.6 Lbs.)Pull
Radial	18N(4 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

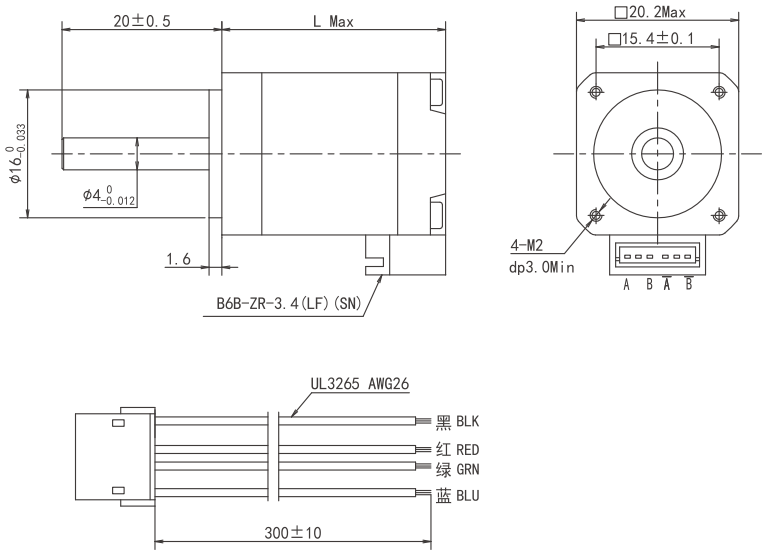
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)	
8HY2402	0.2	23	7.2	4	1.4	28	2.5	50	1.8	
8HY2406	0.6	3.5	0.9		1.8	34	3.2	70		
8HY3402	0.2	25	9.2							
8HY3406	0.6	4.5	1.5							
8HY4402	0.2	32	9.8		2.6	40	4.5	82		
8HY4406	0.6	5.8	1.8							

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

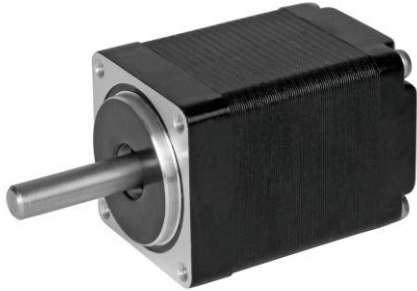
■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



NEMA10(□25mm)2相1.8°-10HY 2 Phase



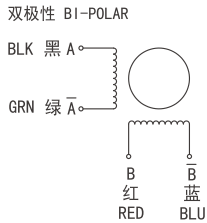
Phases	2
Steps/Revolution	±5%
Step Accuracy	6N(1.3 Lbs.)Push 25N(5.6 Lbs.)Pull
Radial	18N(4 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

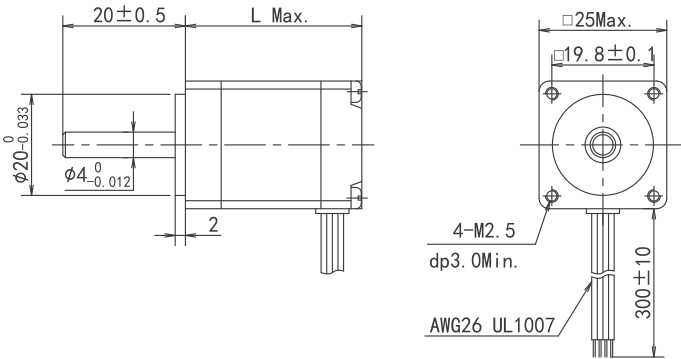
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)Ref.	电感 Phase Inductance (mH)Ref.	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)Ref.	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
10HY3401	0.67	5.5	3.2	4	5.0	33	8	110	1.8
10HY3402	0.35	15	9.2						
10HY4401	0.67	7.0	6.0		6.0	41	11	140	
10HY4402	0.35	20	15						
10HY5401	0.67	9.0	7.2		8.0	50	13	180	
10HY5402	0.35	24	18.5						

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



混合式步进电机 Hybrid Stepper Motor ▸ 二相混合式步进电机 Two-Phase Hybrid Stepping Motor

SIZE26 (○26mm) 2相1.8° -26HY 2 Phase



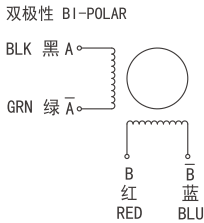
Phases	2
Steps/Revolution	±5%
Step Accuracy	6N(1.3 Lbs.)Push 25N(5.6 Lbs.)Pull
Radial	18N(4 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

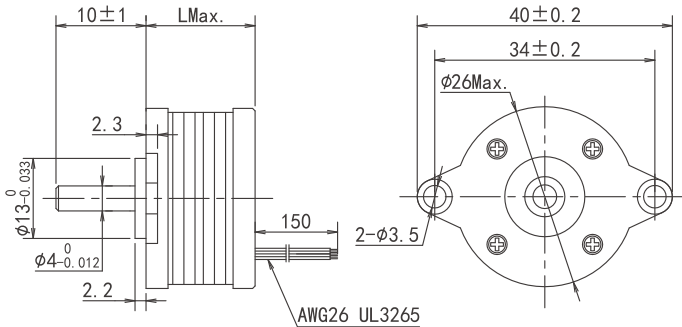
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
26HY0418	0.3	18	3.2	4	1.2	13.5	2.5	50	1.8
26HY1403	0.3	24	3.5		1.5	15	3.2	65	
26HY2409	0.9	4.2	0.9		3.2	20	5.2	75	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 接线图 Wiring Diagram

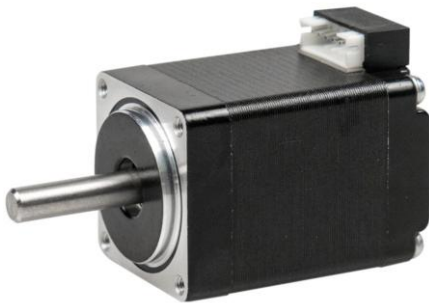


■ 外形图 Dimensions(单位Unit: mm)



混合式步进电机 Hybrid Stepper Motor ▸ 二相混合式步进电机 Two-Phase Hybrid Stepping Motor

NEMA11(□28mm)2相1.8° -11HY 2 Phase



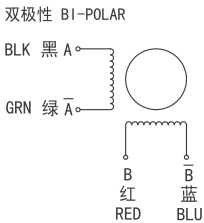
Phases	2
Steps/Revolution	±5%
Step Accuracy	15N(3.4 Lbs.)Push 25N(5.6 Lbs.)Pull
Radial	30N(6.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

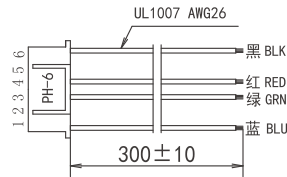
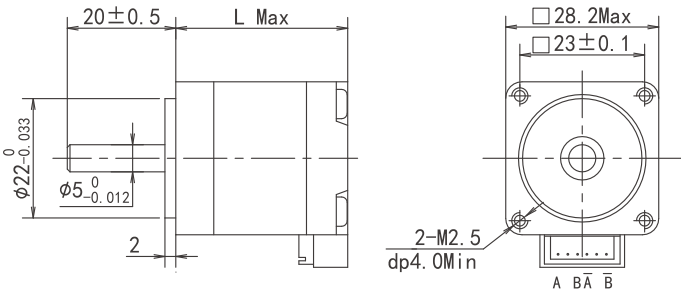
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
11HY2401	0.67	4.2	2.2	4	4.5	28	6	105	1.8
11HY2402	0.35	12	5.8						
11HY3401	0.67	5.5	4.2		6.0	33	8	110	
11HY3402	0.35	15	12						
11HY4401	0.67	7.0	7.0		8.0	41	11	140	
11HY4402	0.35	20	19						
11HY5401	0.67	9.0	8.0		10	50	13	180	
11HY5402	0.35	24	21						

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

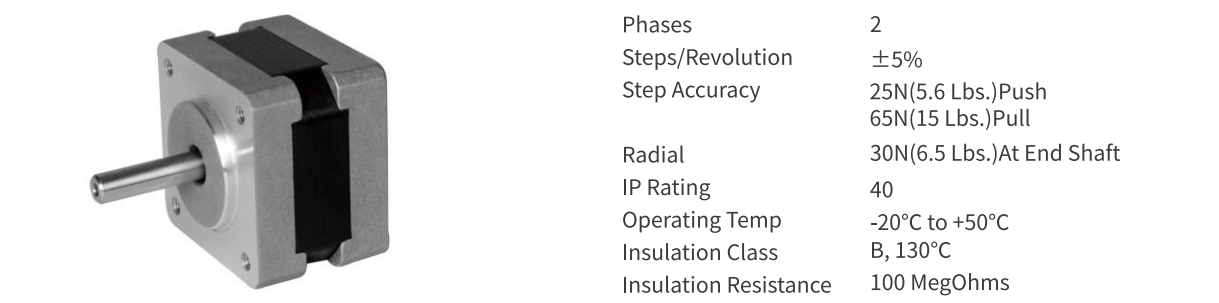
■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



NEMA14(□35mm)2相1.8°-14HY 2 Phase

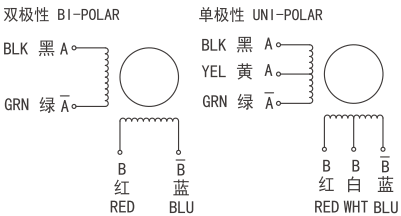


■ 技术数据 Electrical Specifications

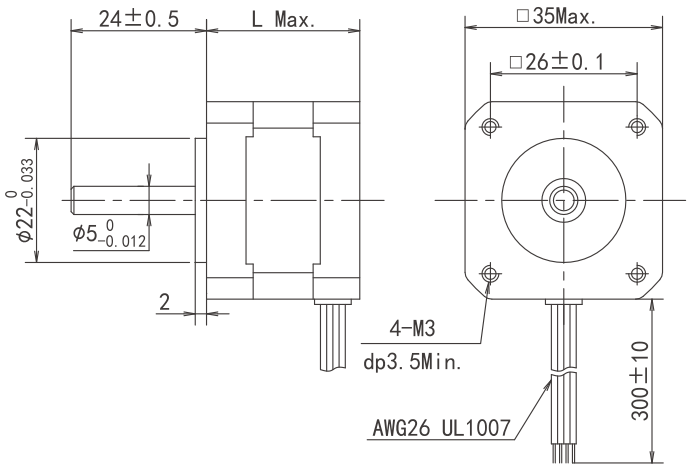
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
14HY0404	0.4	22	16	4	5	20	9	90	1.8
14HY2402	0.8	5.5	7		12	28	11	120	
14HY3402	0.8	7.0	14		18	34	13	160	
14HY3630	0.3	30	22	6	12				
14HY4402	0.8	10.5	13	4	22	42	22	200	
14HY5418	1.8	2.5	5		30	52	26	230	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

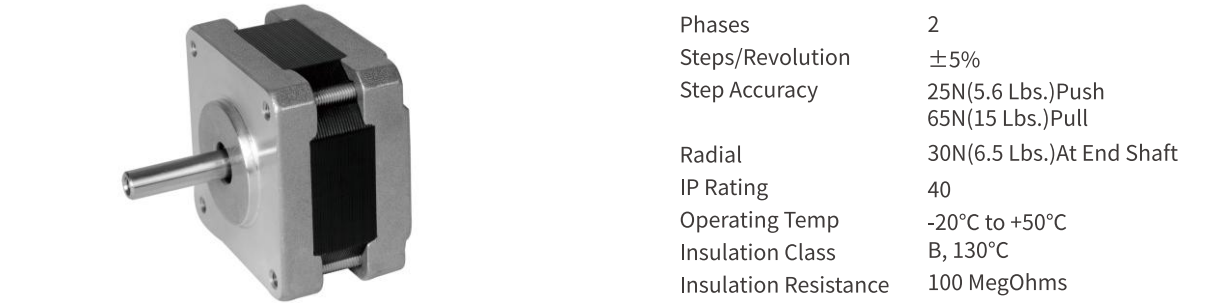
■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



NEMA16(□39mm)2相1.8°-16HY 2 Phase

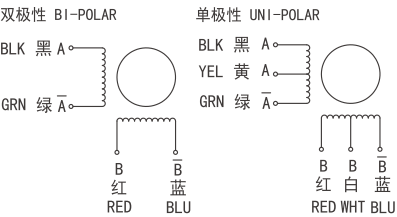


■ 技术数据 Electrical Specifications

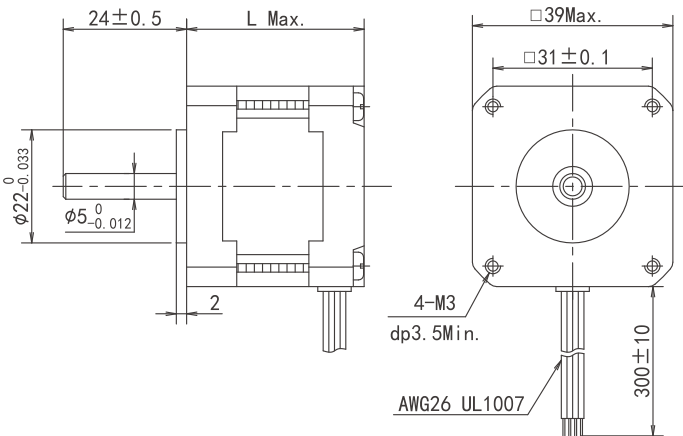
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
16HY0401	0.42	18	12	4	8	20	12	100	1.8
16HY2410	0.6	9	10		14	26	14	120	
16HY3401	0.6	12	13		18	34	19	160	
16HY3402	1.2	3	3						
16HY4402	1.2	3.8	6.5	6	24	40	24	210	
16HY4630	0.4	30	20		18				
16HY8405	0.5	22	24	4	35	48	28	250	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



混合式步进电机 Hybrid Stepper Motor ▷ 二相混合式步进电机 Two-Phase Hybrid Stepping Motor

NEMA17(□42mm)2相1.8°-17HS 2 Phase



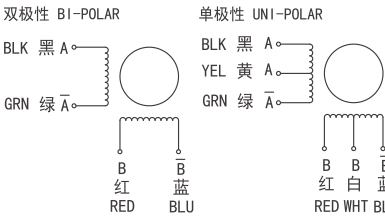
Phases	2
Steps/Revolution	±5%
Step Accuracy	25N(5.6 Lbs.)Push 65N(15 Lbs.)Pull
Radial	30N(6.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20℃ to +50℃
Insulation Class	B, 130℃
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

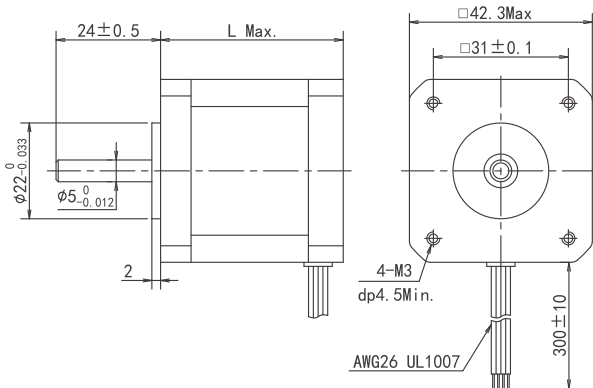
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17HS0410	0.8	3.8	4.5	4	10	20	24	120	1.8
17HS2408	0.6	8	10		12	28	30	150	
17HS3401	1.3	2.4	3.5		28	34	34	220	
17HS4401	1.7	1.5	2.8		40	40	54	280	
17HS8401	1.7	1.8	3.2		50	48	68	350	
17HS8403	2.3	1.2	1.6		50	48	68	350	
17HS9403	2.3	1.4	2.5		70	60	80	480	
17HS6403	2.3	1.5	2.2		80	63	85	500	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 接线图 Wiring Diagram

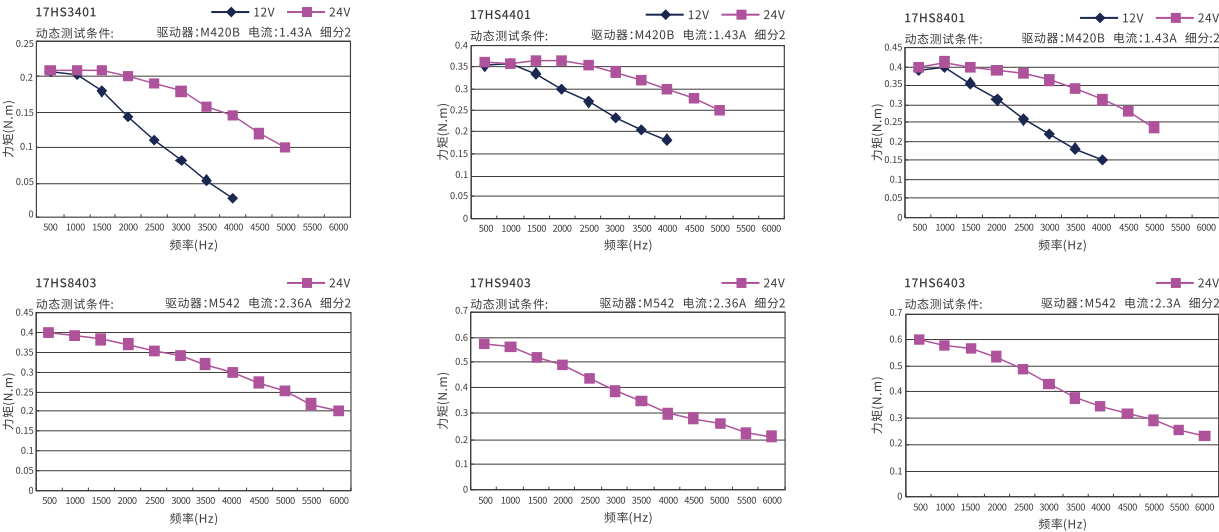


■ 外形图 Dimensions(单位Unit: mm)



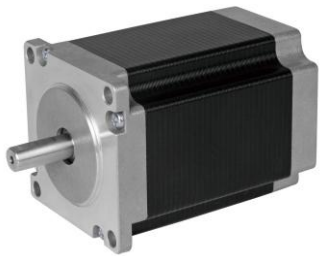
■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▷ 二相混合式步进电机 Two-Phase Hybrid Stepping Motor

NEMA23(□57mm)2相1.8°-23HS 2 Phase



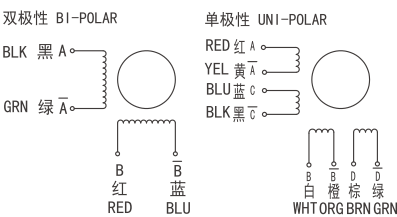
Phases	2
Steps/Revolution	±5%
Step Accuracy	40N(9 Lbs.)Push 130N(30 Lbs.)Pull
Radial	70N(15.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20℃ to +50℃
Insulation Class	B, 130℃
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

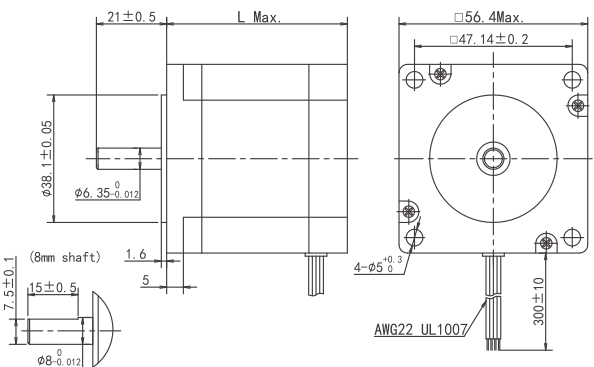
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm²)	重量 Motor Weight (kg)	步距角 Step Angle (°)
23HS0405	0.62	12	32	4	0.55	41	150	0.47	1.8
23HS4425	2.5	1.0	2.2		0.8	45	190	0.52	
23HS5425	2.5	1.1	3.2		1.0	51	230	0.59	
23HS6430	3.0	0.7	2.4		1.1	56	280	0.68	
23HS6404	4.2	0.4	1.2		1.1	56	280	0.68	
23HS7430	3.0	0.8	2.3		1.45	64	380	0.85	
23HS7404	4.2	0.45	1.2		1.45	64	380	0.85	
23HS8430	3.0	1.0	3.5		1.8	76	440	1.05	
23HS8404	4.2	0.55	1.8		1.8	76	440	1.05	
23HS1430	3.0	1.4	5.5		2.5	100	680	1.25	
23HS1404	4.2	0.75	3.0		2.5	100	680	1.25	
23HS2430	3.0	1.5	6.8		2.8	112	800	1.4	
23HS2404	4.2	0.8	3.8		2.8	112	800	1.4	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 接线图 Wiring Diagram

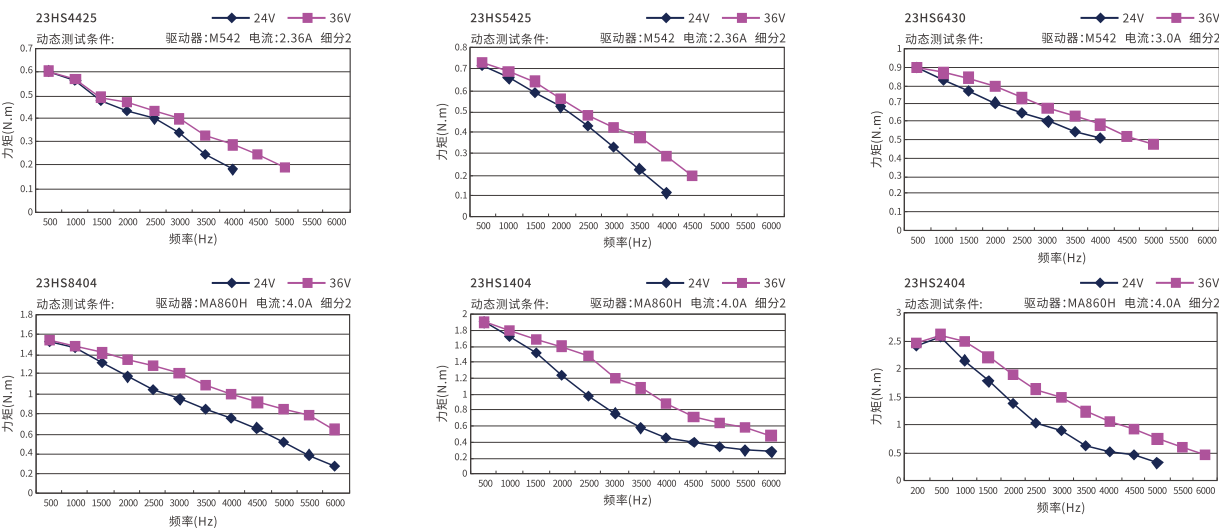


■ 外形图 Dimensions(单位Unit: mm)



■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▸ 二相混合式步进电机 Two-Phase Hybrid Stepping Motor

NEMA23(○57mm)2相1.8°-23HY 2 Phase



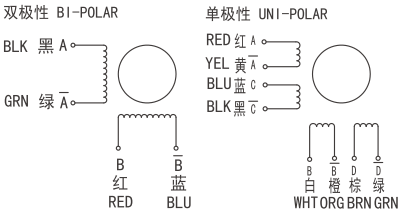
Phases	2
Steps/Revolution	±5%
Step Accuracy	40N(9 Lbs.)Push 130N(30 Lbs.)Pull
Radial	70N(15.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

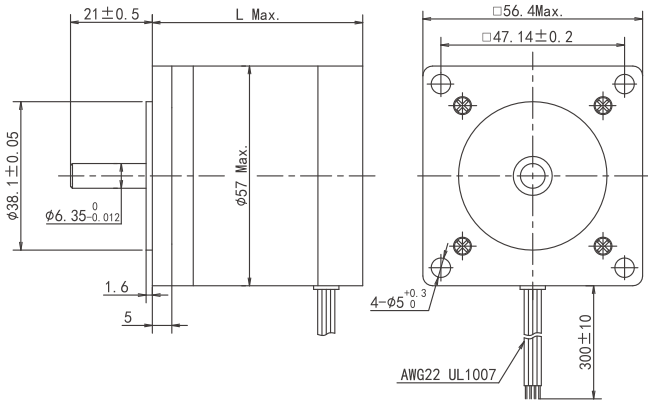
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
23HY4607	0.38	32	28	6	0.3	41	60	0.45	1.8
23HY5481	1.4	2.5	6.2	4	0.62	51	118	0.6	
23HY5627	1.4	2.6	3.2	6	0.45				
23HY6496	2.5	1.2	3.0	4	0.8	56	145	0.65	
23HY6669	1.2	5.0	6.8	6	0.6				
23HY7406	4.2	0.5	1.4	4	1.1	76	230	0.8	
23HY7870	1.6	3.2	4.5	8	0.8				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

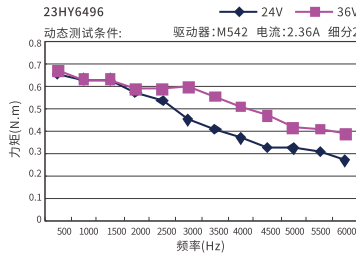
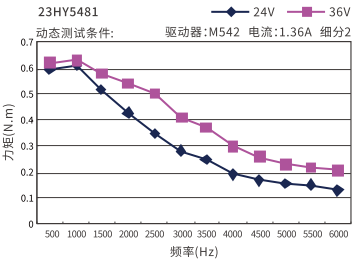
■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)

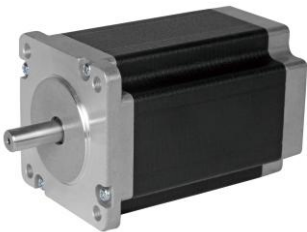


■ 矩频曲线 Torque Curves
Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▸ 二相混合式步进电机 Two-Phase Hybrid Stepping Motor

NEMA24(□60mm)2相1.8°-24HS 2 Phase



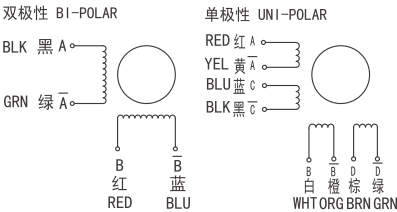
Phases	2
Steps/Revolution	±5%
Step Accuracy	40N(9 Lbs.)Push 130N(30 Lbs.)Pull
Radial	70N(15.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

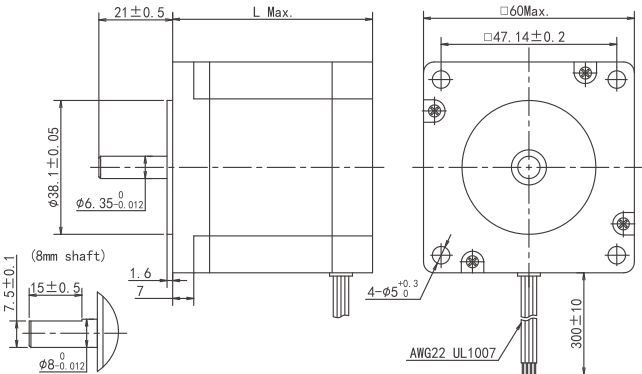
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
24HS0408	2.0	1.2	2.5	4	0.65	41	180	0.5	1.8
24HS4425	2.5	1.0	2.2		0.85	45	200	0.55	
24HS5425	2.5	1.2	3.2		1.0	51	250	0.58	
24HS6430	3.0	0.8	2.4		1.2	56	350	0.7	
24HS7404	4.2	0.5	1.2		1.6	64	450	0.85	
24HS8404	4.2	0.6	1.8		2.2	76	550	1.15	
24HS1404	4.2	0.8	3.0		2.8	90	780	1.4	
24HS2404	4.2	0.9	3.5		3.2	100	850	1.55	
24HS3450	5.0	0.6	2.5		3.6	112	950	1.7	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

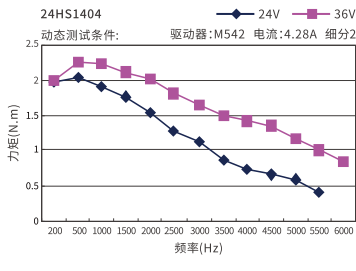
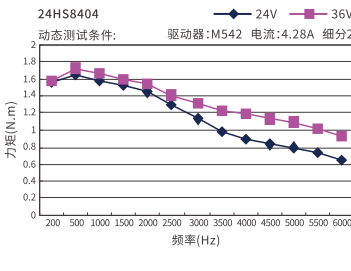
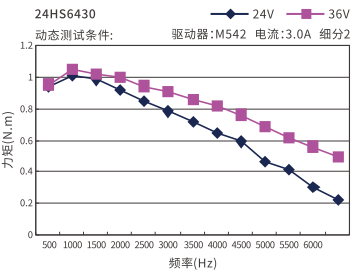
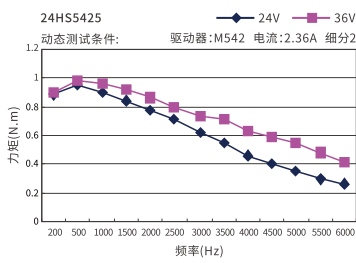
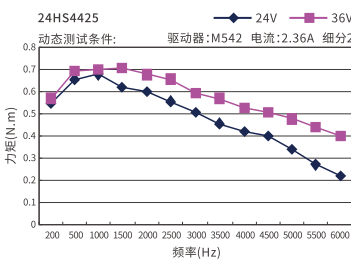
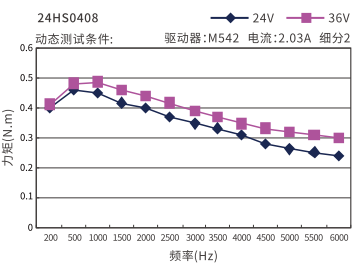
■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)

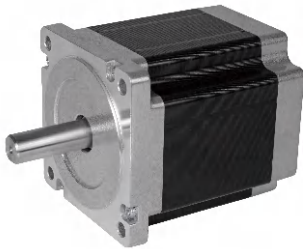


■ 矩频曲线 Torque Curves
Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▷ 二相混合式步进电机 Two-Phase Hybrid Stepping Motor

NEMA34(□86mm)2相1.8°-34HS 2 Phase



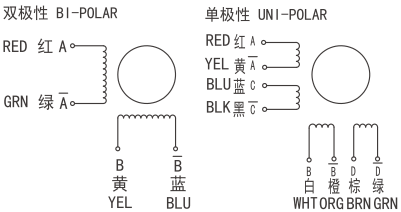
Phases	2
Steps/Revolution	±5%
Step Accuracy	65N(15 Lbs.)Push 155N(35 Lbs.)Pull
Radial	220N(50 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20℃ to +50℃
Insulation Class	B, 130℃
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

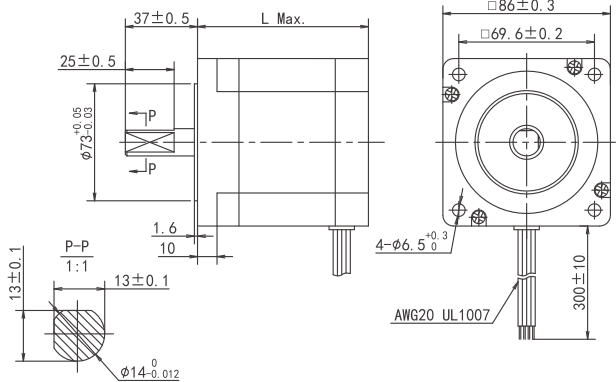
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm ²)	重量 Motor Weight (kg)	步距角 Step Angle (°)
34HS6403	3.8	0.55	3.5	4	3.0	66	0.85	2.0	1.8
34HS6401	5.6	0.3	1.6						
34HS8401	5.6	0.35	3.0		4.2	78	1.05	2.5	
34HS8402	7.0	0.2	1.6						
34HS9401	5.6	0.45	3.7		6.5	98	1.55	3.0	
34HS9402	7.0	0.25	2.2						
34HS4401	5.6	0.5	5.5		8.2	114	1.8	3.5	
34HS4402	7.0	0.33	3.2						
34HS2401	5.6	0.6	5.5		8.9	126	2.2	3.9	
34HS2402	7.0	0.32	3.3						
34HS5401	5.6	0.65	8.0		12	150	2.5	4.2	
34HS5402	7.0	0.4	5.0						

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram

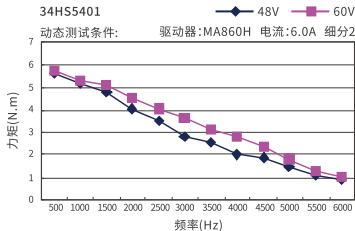
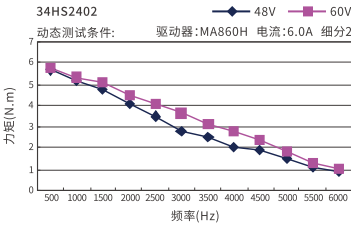
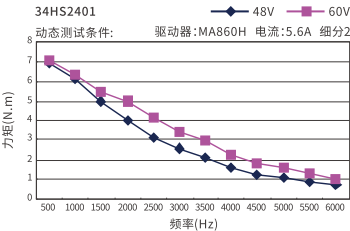
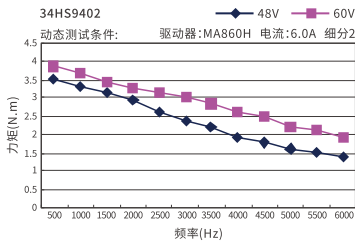
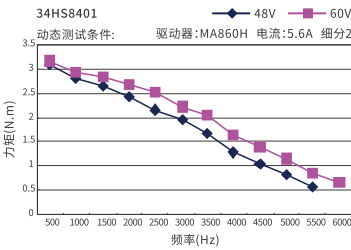
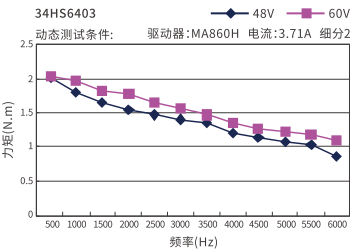


■ 外形图 Dimensions(单位Unit: mm)



■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▷ 二相混合式步进电机 Two-Phase Hybrid Stepping Motor

NEMA34(○86mm)2相1.8°-34HY 2 Phase



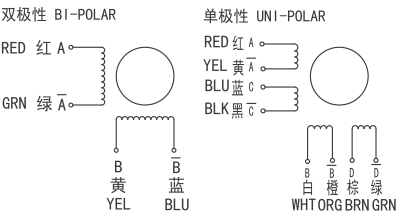
Phases	2
Steps/Revolution	±5%
Step Accuracy	65N(15 Lbs.)Push 155N(35 Lbs.)Pull
Radial	220N(50 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20℃ to +50℃
Insulation Class	B, 130℃
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

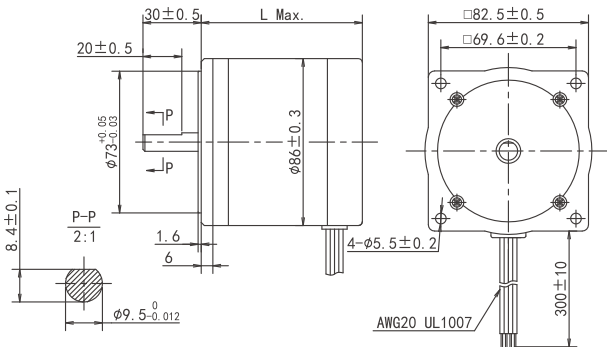
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm ²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
34HY6404	3.0	0.85	7.2	4	2.5	63	0.64	1.6	1.8
34HY6801	4.0	0.6	2	8	1.8				
34HY9403	4.0	0.8	9	4	4.5	92	1.3	2.6	
34HY9801	4.0	0.89	3.8	8	3.2				
34HY1401	5.6	0.55	5.6	4	6.3	122	1.9	3.8	
34HY1801	4.0	1.1	6.2	8	5.0				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram

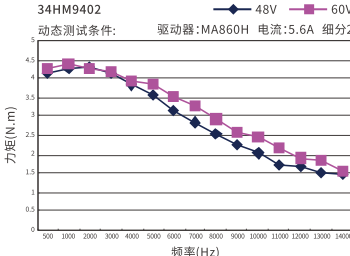
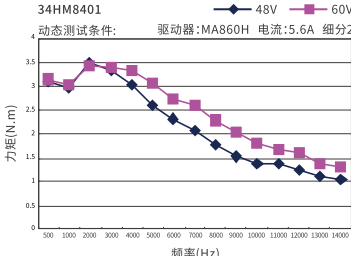
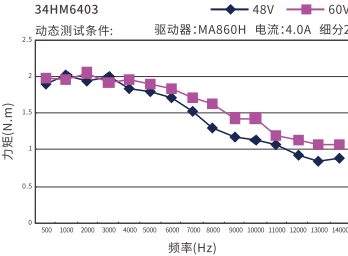
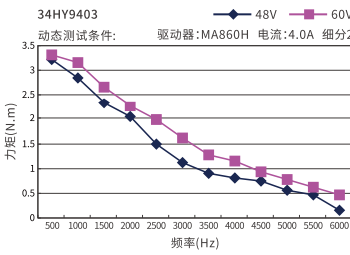
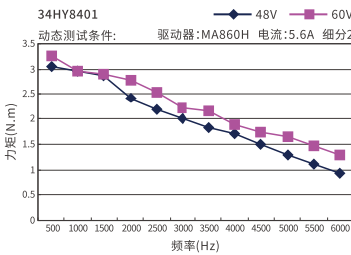
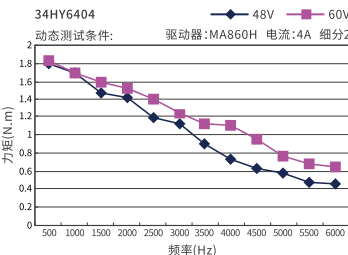


■ 外形图 Dimensions(单位Unit: mm)

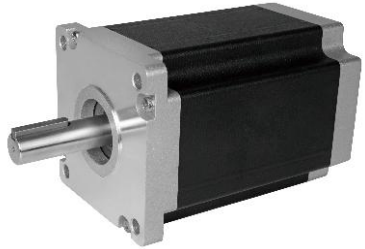
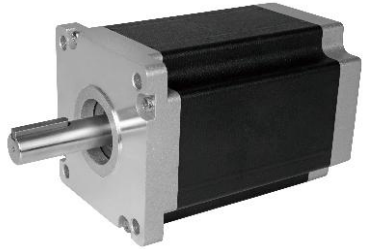


■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



NEMA43(□110mm)2相1.8°-43HS 2 Phase

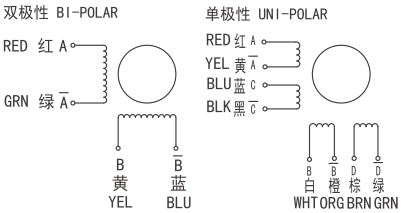
	Phases	2
	Steps/Revolution	±5%
	Step Accuracy	250N(56 Lbs.)Push 250N(56 Lbs.)Pull
	Radial	450N(100 Lbs.)At End Shaft
	IP Rating	40
	Operating Temp	-20°C to +50°C
	Insulation Class	B, 130°C
	Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

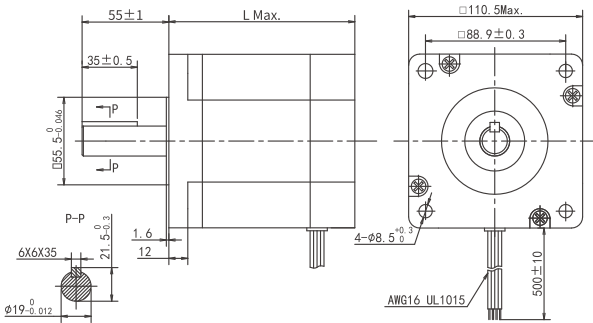
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
43HS0460	6.0	0.5	6	4	10	100	4.0	5.0	1.8
43HS1460	6.0	0.47	7.0		14	117	6.0	5.8	
43HS2460	6.0	0.66	10.5		16.5	126	9.0	6.8	
43HS5460	6.0	0.8	12.5		21	150	11	8.4	
43HS6460	6.0	0.87	15		21.5	165	13	9.3	
43HS8460	6.0	1.1	19		28	200	17	13	
43HS8480	8.0	0.62	12.5						

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram

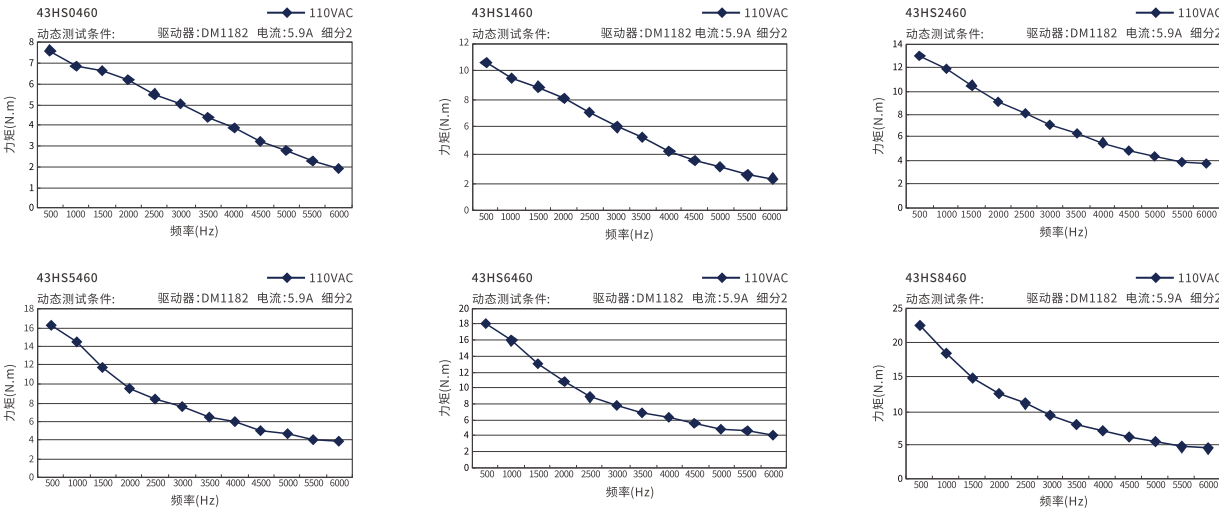


■ 外形图 Dimensions(单位Unit: mm)

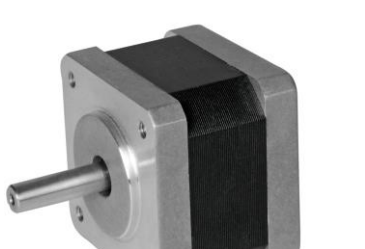
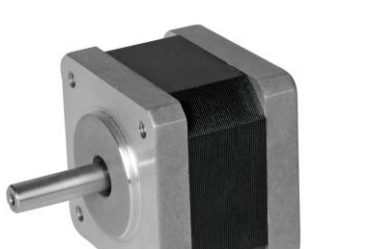


■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



NEMA14(□35mm)2相0.9°-14HM 2 Phase

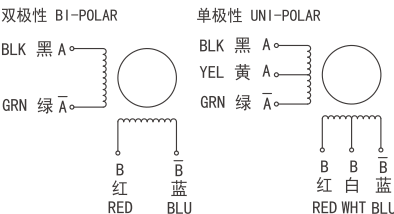
	Phases	2
	Steps/Revolution	±5%
	Step Accuracy	25N(5.6 Lbs.)Push 65N(15 Lbs.)Pull
	Radial	30N(6.5 Lbs.)At End Shaft
	IP Rating	40
	Operating Temp	-20°C to +50°C
	Insulation Class	B, 130°C
	Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

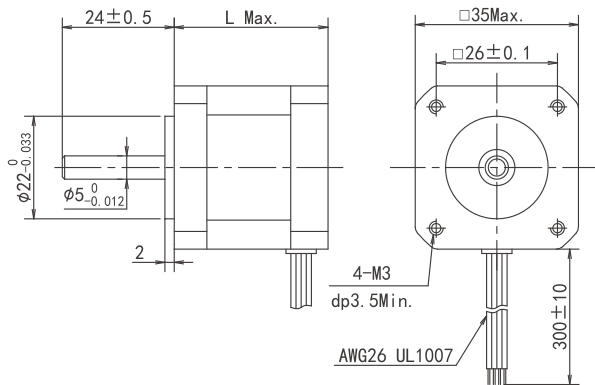
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm²)	重量 Motor Weight (g)	步距角 Step Angle (°)
14HM0404	0.4	22	16	4	5	20	10	95	0.9
14HM2401	0.8	4.5	4.2		9	28	12	130	
14HM2402	0.55	10	9.5		9	28	12	130	
14HM3401	0.8	6	10		14	34	18	190	
14HM3630	0.4	30	18	6	10	34	18	190	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



SIZE36(○36mm)2相0.9°-36HM 2 Phase



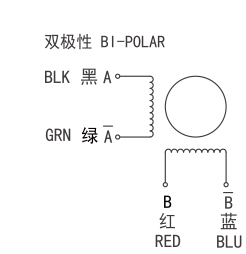
Phases	2
Steps/Revolution	±5%
Step Accuracy	6N(1.3 Lbs.)Push 25N(5.6 Lbs.)Pull
Radial	18N(4 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

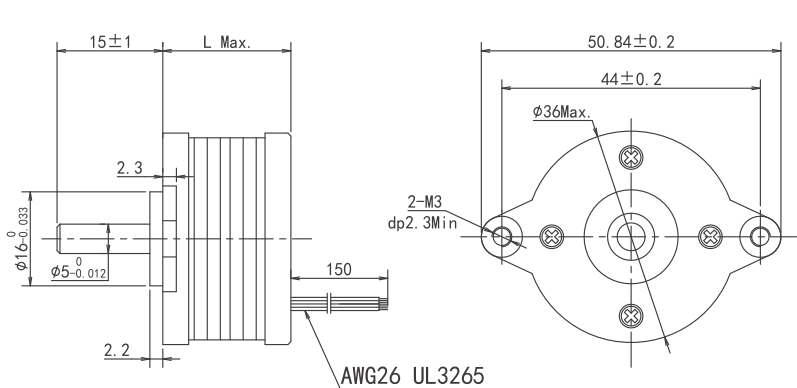
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
36HM0403	0.3	19	8.5	4	3.2	13.5	3	40	0.9
36HM1403	0.3	16.8	9		4.2	15.2	4	55	
36HM2445	0.45	14	12		9	20	6	95	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

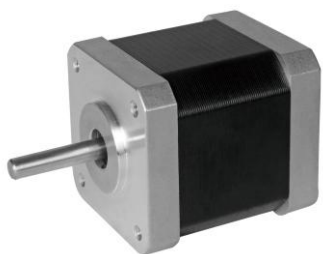
■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



NEMA17(□42mm)2相0.9°-17HM 2 Phase



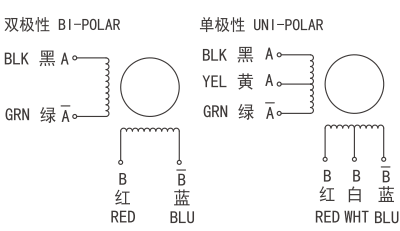
Phases	2
Steps/Revolution	±5%
Step Accuracy	25N(5.6 Lbs.)Push 65N(15 Lbs.)Pull
Radial	30N(6.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

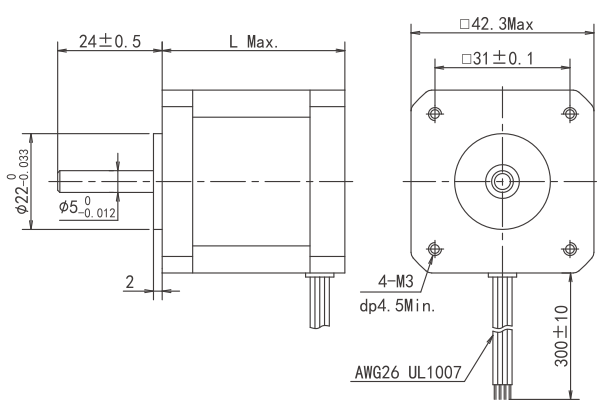
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17HM0403	0.3	25	33	4	8	20	24	120	0.9
17HM2410	0.42	8	13		10	28	30	140	
17HM3401	1.3	2.4	4.0		22	34	34	220	
17HM4401	1.7	1.5	3.8		36	40	54	280	
17HM4630	0.4	30	30	6	26		68	350	
17HM8401	1.7	1.8	4.0	4	42				
17HM8630	0.4	30	28	6	32				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram

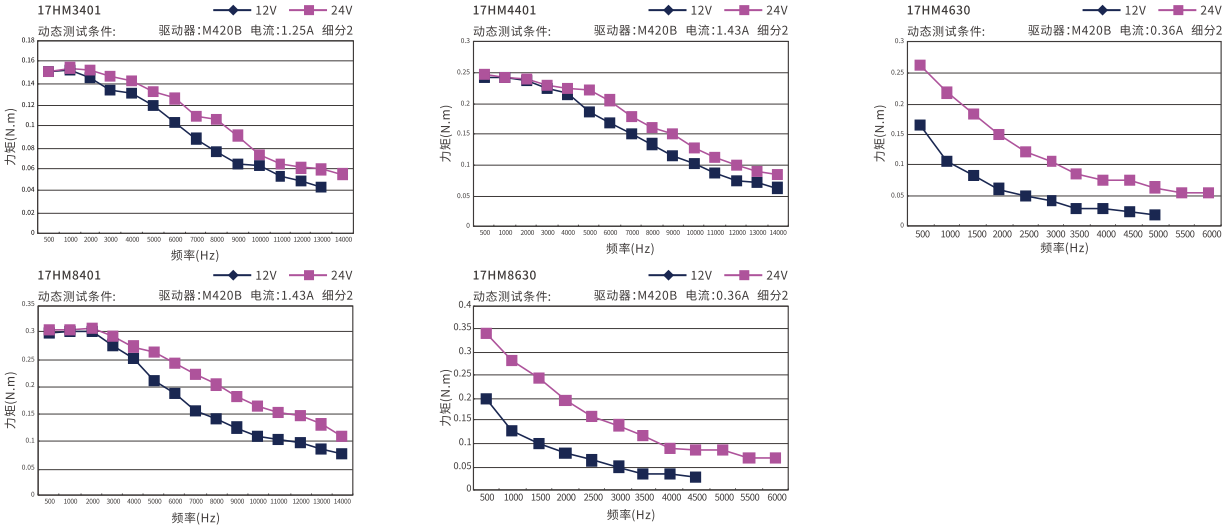


■ 外形图 Dimensions(单位Unit: mm)

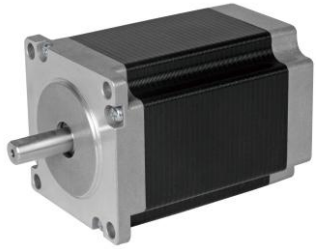


■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



NEMA23(□57mm)2相0.9°-23HM 2 Phase



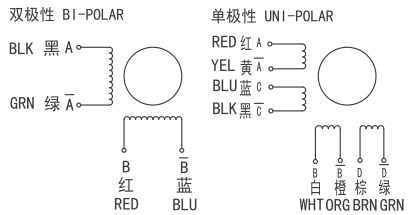
Phases	2
Steps/Revolution	±5%
Step Accuracy	40N(9 Lbs.)Push 130N(30 Lbs.)Pull
Radial	70N(15.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

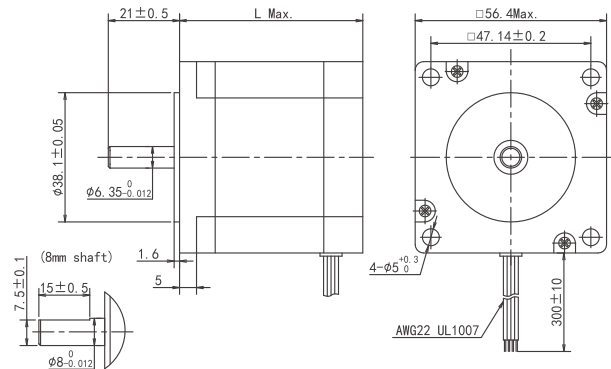
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
23HM0408	2.0	1.2	3.0	4	0.32	41	150	0.47	0.9
23HM4425	2.5	1.0	3.0		0.62	45	190	0.52	
23HM5425		1.1	3.8		0.75	51	230	0.59	
23HM6430	3.0	0.7	2.8		1.0	56	280	0.68	
23HM7404	4.2	0.45	1.5		1.1	64	380	0.85	
23HM8404		0.55	2.2		1.5	76	440	1.05	
23HM1404		0.75	3.0		1.8	100	680	1.25	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer's requirements.

■ 接线图 Wiring Diagram

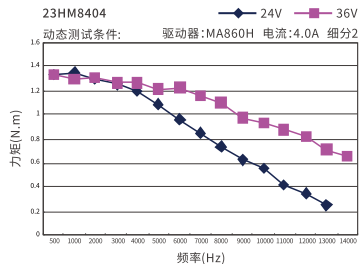
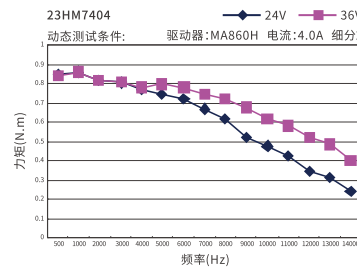
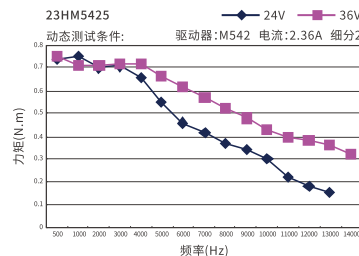
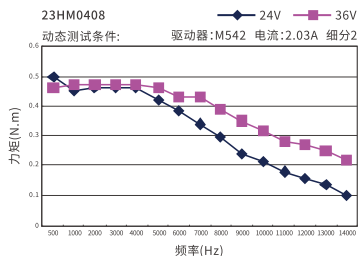


■ 外形图 Dimensions(单位Unit: mm)

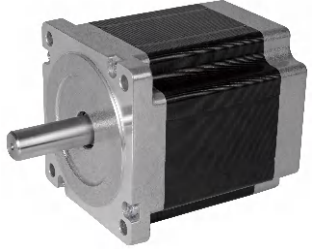


■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



NEMA34(□86mm)2相0.9°-34HM 2 Phase



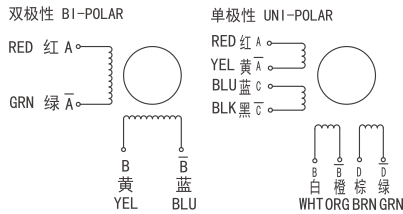
Phases	2
Steps/Revolution	± 5%
Step Accuracy	65N(15 Lbs.)Push 155N(35 Lbs.)Pull
Radial	220N(50 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

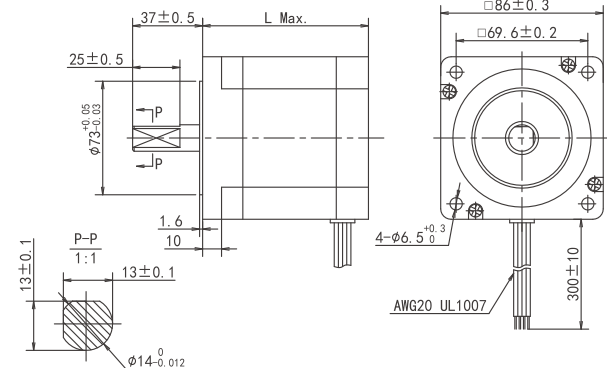
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm ²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)	
34HM6803	2.7	1.1	3.5	8	2.0	66	0.85	2.0	0.9	
34HM8801	4.0	0.7	4.0		2.7	78	1.05	2.5		
34HM9802	5.0	0.6	3.2		4.2	98	1.55	3.0		
34HM4802	5.0	0.65	3.8		5.2	114	1.8	3.5		
34HM2403	4.0	1.2	12.5	4	8	126	2.2	3.9		0.9
34HM2802	5.0	0.75	4.5	8	5.5					
34HM5402	7.0	0.4	6.2	4	10.5	150	2.5	4.2		
34HM5802	5.0	0.8	6.2	8	7.5					

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer's requirements.

■ 接线图 Wiring Diagram

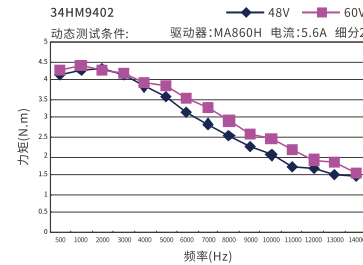
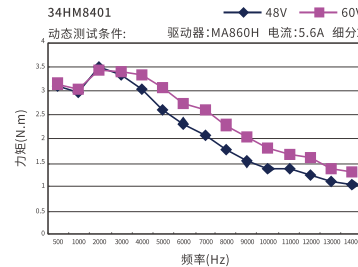
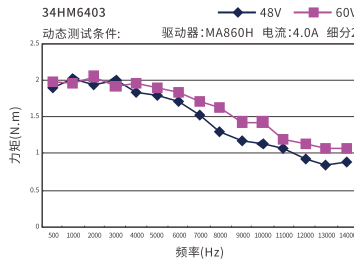


■ 外形图 Dimensions(单位Unit: mm)



■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



NEMA17(□42mm)2相3.6°-17HE 2 Phase

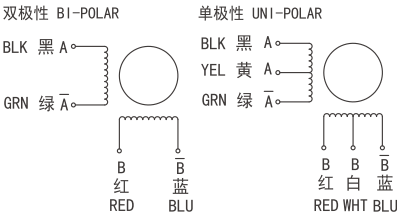
	Phases	2
	Steps/Revolution	±5%
	Step Accuracy	25N(5.6 Lbs.)Push 65N(15 Lbs.)Pull
	Radial	30N(6.5 Lbs.)At End Shaft
	IP Rating	40
	Operating Temp	-20°C to +50°C
	Insulation Class	B, 130°C
	Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

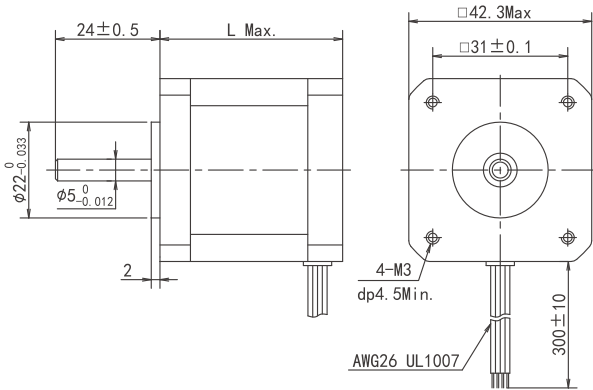
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17HE3452	0.52	11	12	4	12	34	34	220	3.6
17HE3616	0.16	75	28	6	8				
17HE3606	0.6	10.5	5						
17HE4650	0.25	45	22	6	9.5	40	54	280	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram

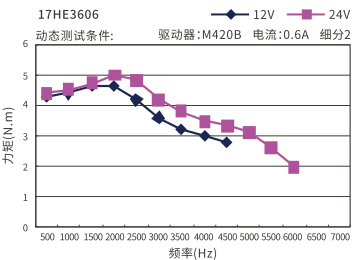


■ 外形图 Dimensions(单位Unit: mm)

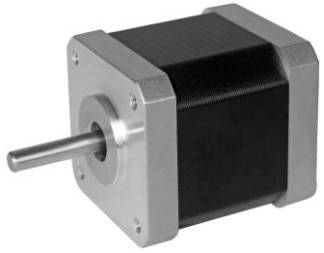


■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



NEMA17(□42mm)3相3.75°-17HR 3 Phase

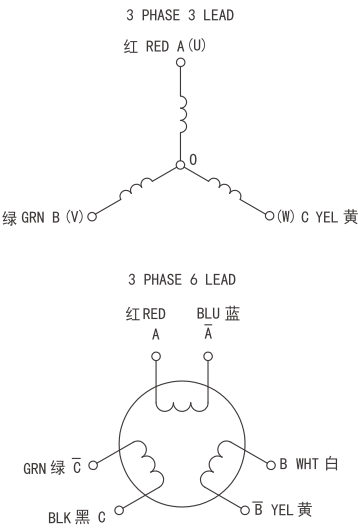
	Phases	3
	Steps/Revolution	±5%
	Step Accuracy	25N(5.6 Lbs.)Push 65N(15 Lbs.)Pull
	Radial	30N(6.5 Lbs.)At End Shaft
	IP Rating	40
	Operating Temp	-20°C to +50°C
	Insulation Class	B, 130°C
	Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

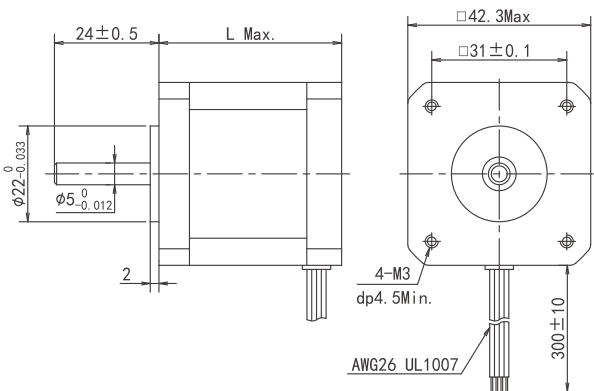
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17HR3315Y	1.5	1.8	4	3	15	34	34	220	3.75
17HR4315Y	1.5	2.5	5.5		20	40	54	280	
17HR8315Y	1.5	3.6	7		30	48	68	350	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram

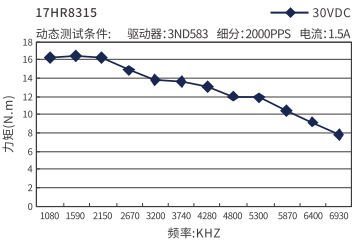


■ 外形图 Dimensions(单位Unit: mm)



■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



NEMA17(□42mm)3相1.2°-17HT 3 Phase



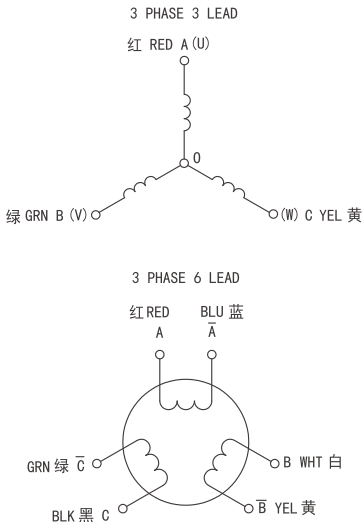
Phases	3
Steps/Revolution	±5%
Step Accuracy	25N(5.6 Lbs.)Push 65N(15 Lbs.)Pull
Radial	30N(6.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

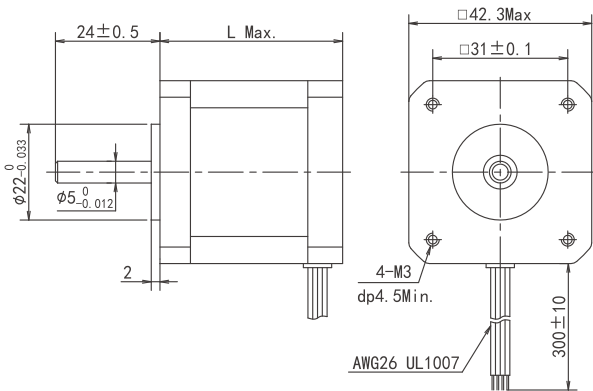
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17HT34330Y	3.0	0.65	0.2	3	10	34	34	220	1.2
17HT4330Y	3.0	0.79	0.35		17	40	54	280	
17HT8330Y	3.0	0.98	0.43		21	48	68	350	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

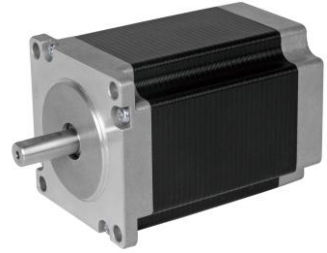
■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



NEMA23(□57mm)3相1.2°-23HT 3 Phase



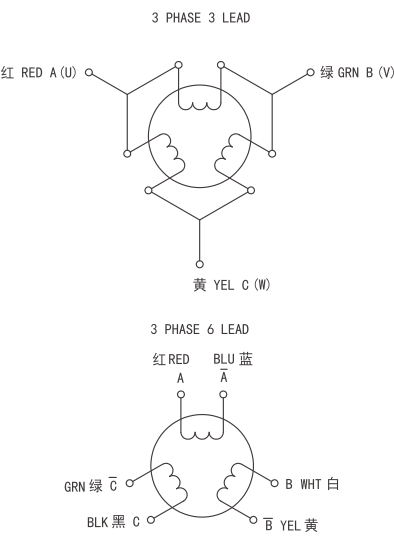
Phases	3
Steps/Revolution	±5%
Step Accuracy	40N(9 Lbs.)Push 130N(30 Lbs.)Pull
Radial	70N(15.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

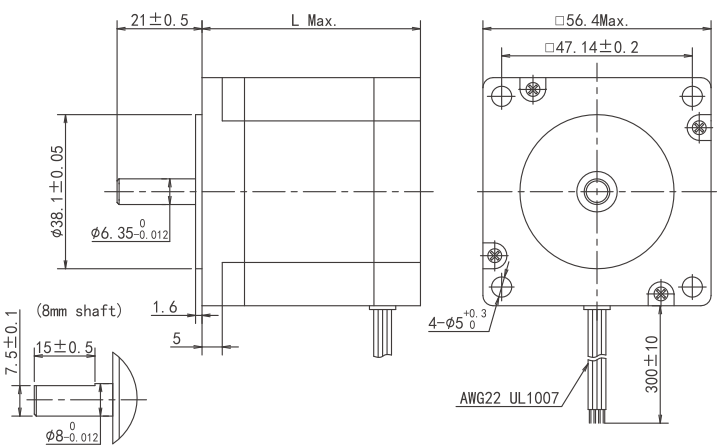
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm ²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
23HT6335	3.5	0.6	1.7	3	0.8	57	0.3	0.7	1.2
23HT8631	5.2	0.8	2	6	1.5	80	0.5	1.1	
23HT1365	6.5	0.45	1.7	3	2.0	105	0.7	1.3	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 接线图 Wiring Diagram

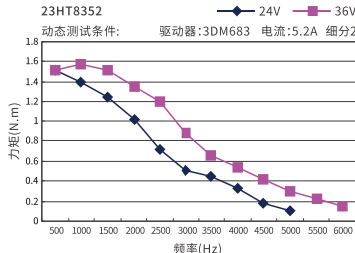
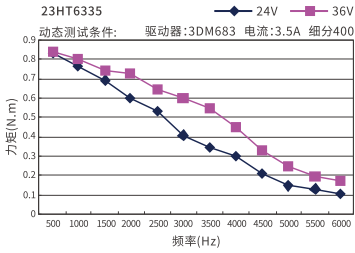


■ 外形图 Dimensions(单位Unit: mm)



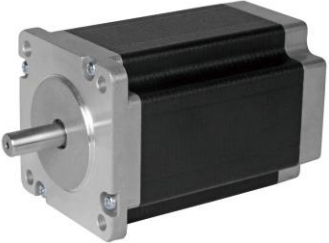
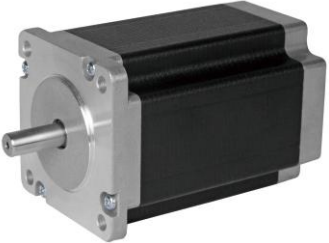
■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▷ 三相混合式步进电机 Three-Phase Hybrid Stepping Motor

NEMA24(□60mm)3相1.2°-24HT 3 Phase

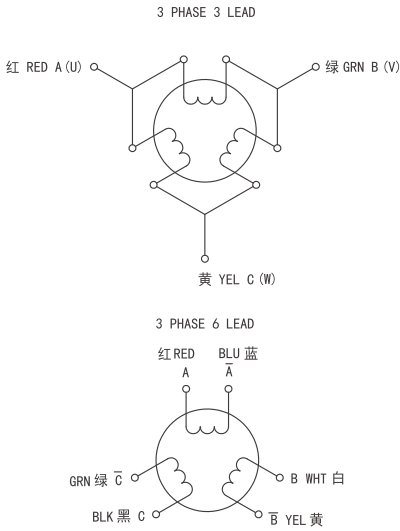
	Phases	3
	Steps/Revolution	±5%
	Step Accuracy	40N(9 Lbs.)Push 130N(30 Lbs.)Pull
	Radial	70N(15.5 Lbs.)At End Shaft
	IP Rating	40
	Operating Temp	-20°C to +50°C
	Insulation Class	B, 130°C
	Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

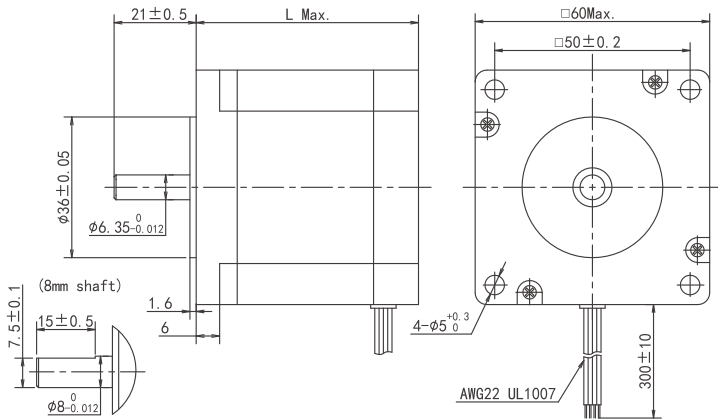
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
24HT6335	3.5	0.95	1.8	3	0.8	56	0.28	0.58	1.2
24HT7346	4.6	0.7	1.2		1.1	64	0.38	0.85	
24HT7627	4.6	1.0	1.2	6	1.1		0.44	1.15	
24HT8346	4.6	0.8	1.5	3	1.3	76		1.15	
24HT1365	6.5	0.45	1		1.6	90	0.58	1.4	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 接线图 Wiring Diagram

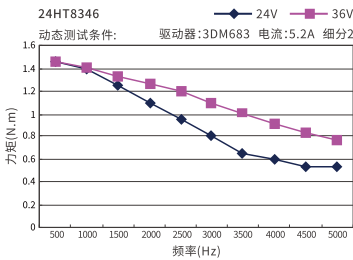


■ 外形图 Dimensions(单位Unit: mm)



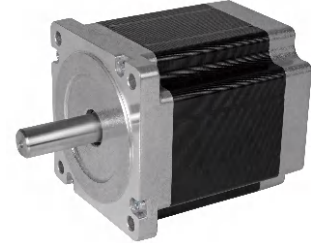
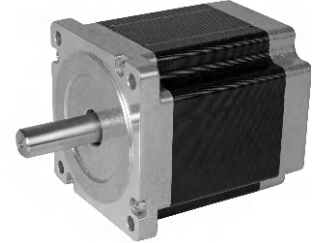
■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▷ 三相混合式步进电机 Three-Phase Hybrid Stepping Motor

NEMA34(□86mm)3相1.2°-34HT 3 Phase

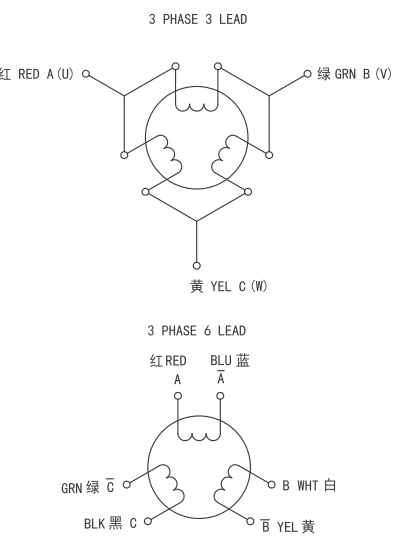
	Phases	3
	Steps/Revolution	±5%
	Step Accuracy	65N(15 Lbs.)Push 155N(35 Lbs.)Pull
	Radial	220N(50 Lbs.)At End Shaft
	IP Rating	40
	Operating Temp	-20°C to +50°C
	Insulation Class	B, 130°C
	Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

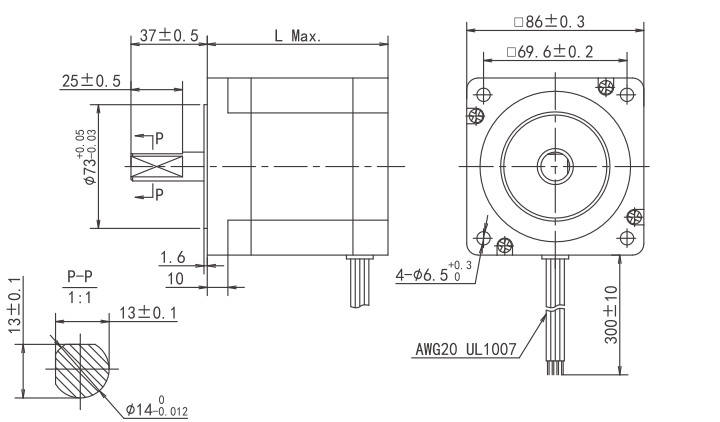
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
34HT6368	6.8	0.3	0.65	3	1.5	66	0.85	2.0	1.2
34HT8345	4.5	0.75	3.0		2.5	78	1.05	2.5	
34HT9627	4.6	2.1	3.9	6	3.6	98	1.55	3.0	
34HT4368	6.8	0.55	2.1	3	4.5	114	1.8	3.5	
34HT2368	6.8	0.65	2.6		5.5	126	2.2	3.9	
34HT5368	6.8	0.7	3.5		6.5	150	2.5	4.2	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 接线图 Wiring Diagram

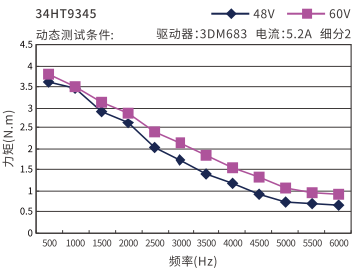


■ 外形图 Dimensions(单位Unit: mm)



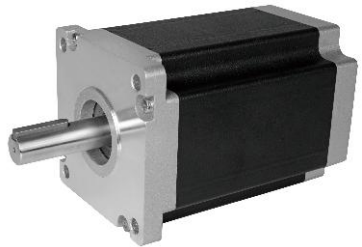
■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▷ 三相混合式步进电机 Three-Phase Hybrid Stepping Motor

NEMA43(□110mm)3相1.2°-43HT 3 Phase

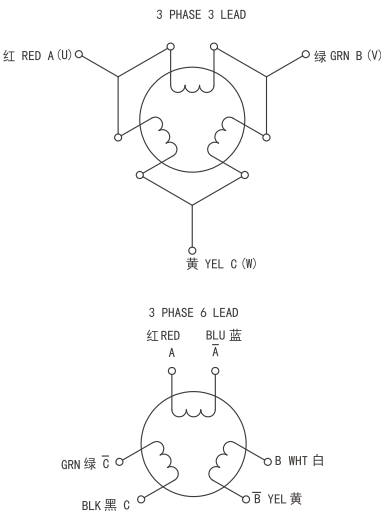
	Phases	3
	Steps/Revolution	±5%
	Step Accuracy	250N(56 Lbs.)Push 250N(56 Lbs.)Pull
	Radial	450N(100 Lbs.)At End Shaft
	IP Rating	40
	Operating Temp	-20°C to +50°C
	Insulation Class	B, 130°C
	Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

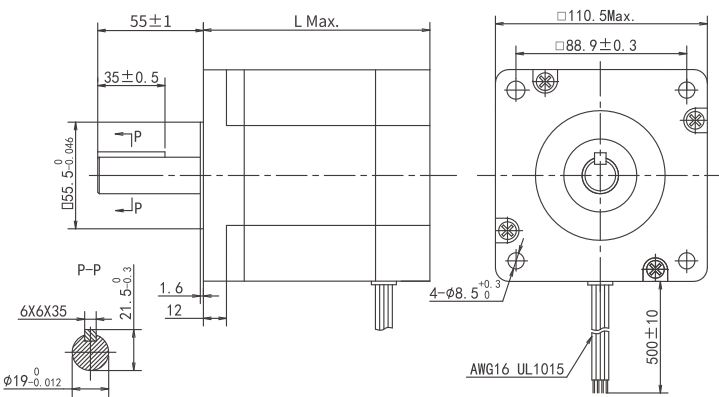
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
43HT0360	6.0	0.65	3.7	3	7	100	4	5.0	1.2
43HT1360	6.0	0.75	5.2		8.5	117	6	5.8	
43HT2360	6.0	0.85	5.5		9	126	9	6.8	
43HT5360	6.0	0.95	7.5		12	150	11	8.4	
43HT6360	6.0	1.1	9.0		13	165	13	9.3	
43HT8360	6.0	1.45	12.5		18	200	17	13	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

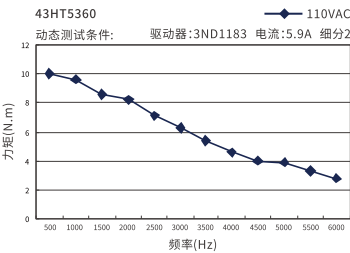
■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)

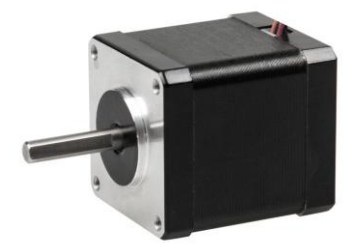


■ 矩频曲线 Torque Curves
Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▷ 五相混合式步进电机 Five-Phase Hybrid Stepping Motor

NEMA16(□39mm)5相0.36°-16HI 5 Phase

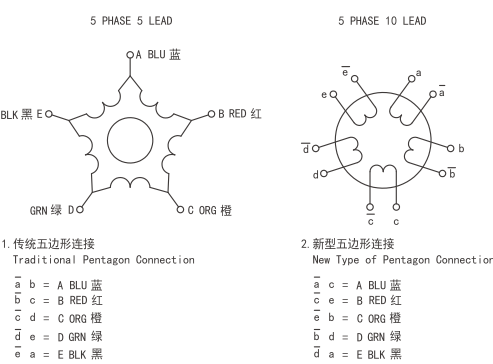
	Phases	5
	Steps/Revolution	±5%
	Step Accuracy	25N(5.6 Lbs.)Push 65N(15 Lbs.)Pull
	Radial	30N(6.5 Lbs.)At End Shaft
	IP Rating	40
	Operating Temp	-20°C to +50°C
	Insulation Class	B, 130°C
	Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

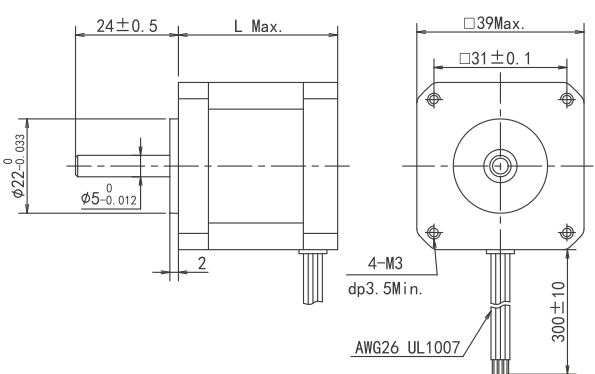
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm²)	重量 Motor Weight (g)	步距角 Step Angle (°)
16HI3508	0.75	18	1.8	5	7.5	31	14	140	0.36
16HI4508	0.75	2.5	2.5		13.5	40	25	200	
16HI51010	1.0	2.0	1.6	10	22	44	28	220	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)

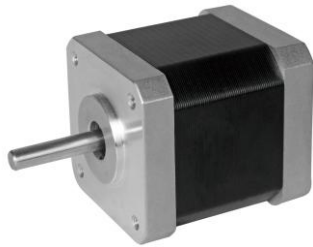


■ 矩频曲线 Torque Curves
Pulse Rate Vs Torque Characteristics (Pull-out Torque)



混合式步进电机 Hybrid Stepper Motor ▷ 五相混合式步进电机 Five-Phase Hybrid Stepping Motor

NEMA17(□42mm)5相0.72°-17HF 5 Phase



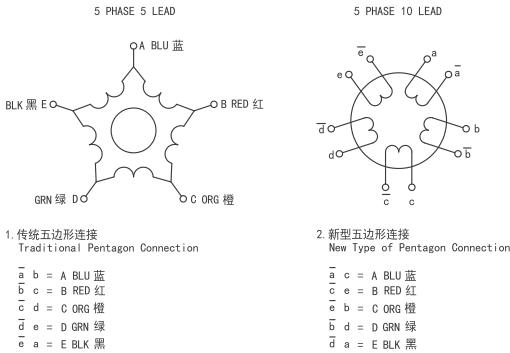
Phases	5
Steps/Revolution	±5%
Step Accuracy	25N(5.6 Lbs.)Push 65N(15 Lbs.)Pull
Radial	30N(6.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

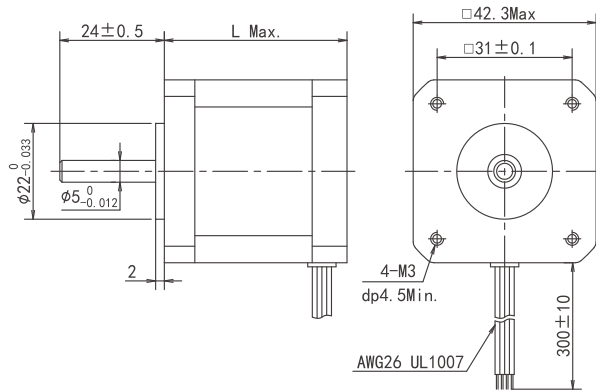
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17HF4508	0.75	1.5	1.5	5	8	40	54	280	0.72
17HF8508	0.75	2.0	1.7		24	48	68	350	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram

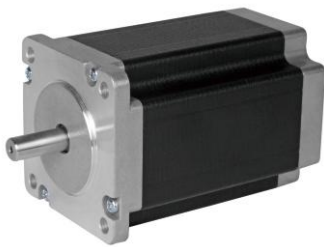


■ 外形图 Dimensions(单位Unit: mm)



混合式步进电机 Hybrid Stepper Motor ▷ 五相混合式步进电机 Five-Phase Hybrid Stepping Motor

NEMA24(□60mm)5相0.72°-24HF 5 Phase



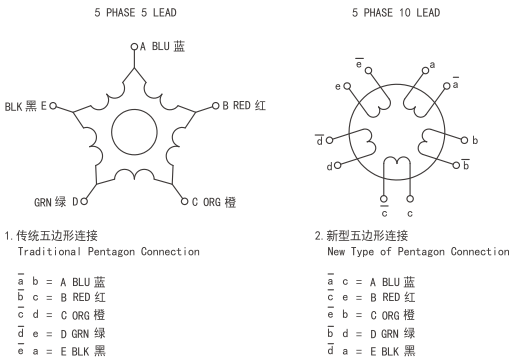
Phases	5
Steps/Revolution	±5%
Step Accuracy	40N(9 Lbs.)Push 130N(30 Lbs.)Pull
Radial	70N(15.5 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

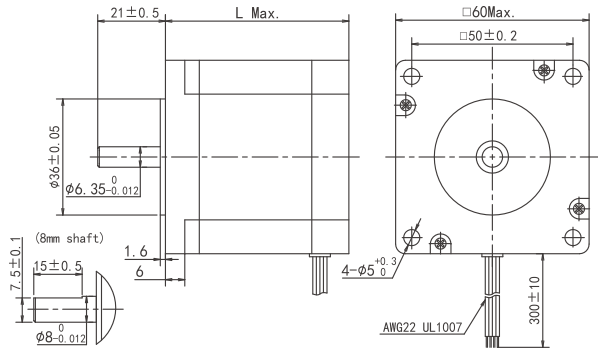
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm ²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
24HF6515	1.5	1.3	3	5	0.8	56	0.28	0.58	0.72
24HF7508	0.75	3.6	9.2		1.0	64	0.38	0.45	
24HF8505	0.75	5.0	13.5		1.3	76	0.44	1.15	
24HF1515	1.5	1.2	3.8		1.6	90	0.58	1.4	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram

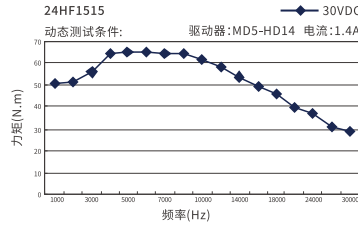
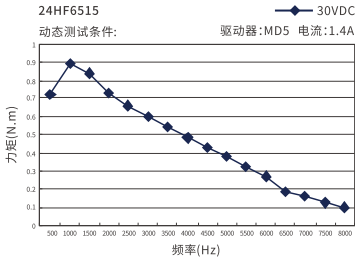


■ 外形图 Dimensions(单位Unit: mm)

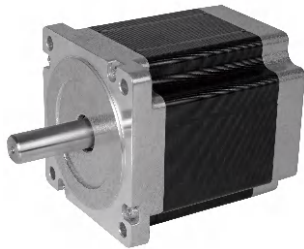


■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



NEMA34(□86mm)5相0.72°-34HF 5 Phase



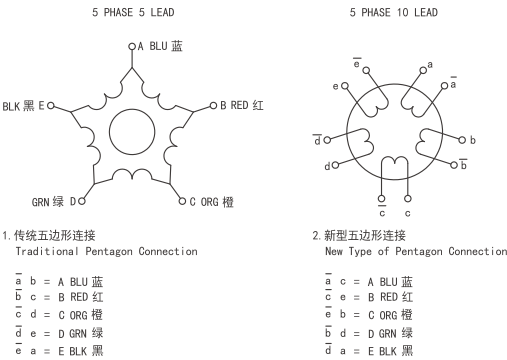
Phases	5
Steps/Revolution	±5%
Step Accuracy	65N(15 Lbs.)Push 155N(35 Lbs.)Pull
Radial	220N(50 Lbs.)At End Shaft
IP Rating	40
Operating Temp	-20°C to +50°C
Insulation Class	B, 130°C
Insulation Resistance	100 MegOhms

■ 技术数据 Electrical Specifications

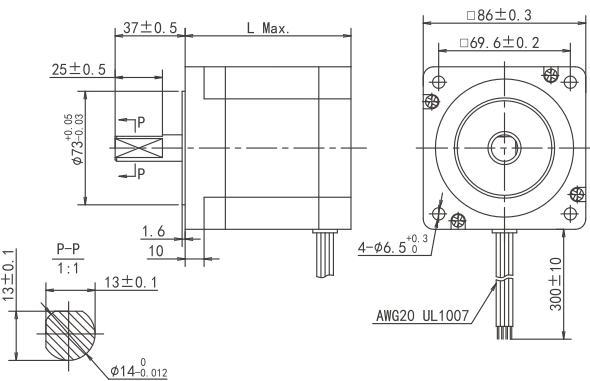
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
34HF6515	1.5	1.8	15	5	1.8	66	0.85	2.0	0.72
34HF8515	1.5	2.1	22		2.5	78	1.05	2.5	
34HF9515	1.5	2.8	25		4.3	98	1.55	3.0	
34HF4528	2.8	0.73	3.8		5.1	114	1.8	3.5	
34HF2528	2.8	0.85	4.5		5.8	126	2.2	3.9	
34HF5528	2.8	1.0	5.5		7.5	150	2.5	4.2	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer' s requirements.

■ 接线图 Wiring Diagram

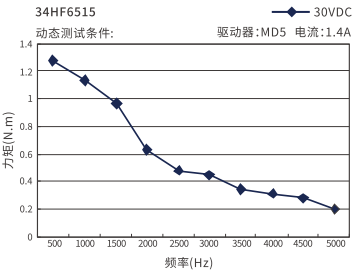


■ 外形图 Dimensions(单位Unit: mm)



■ 矩频曲线 Torque Curves

Pulse Rate Vs Torque Characteristics (Pull-out Torque)



STEP SERVO SYSTEM SERIES

SS 步进伺服系统系列

02

混合式步进电机 Hybrid Stepper Motor	
步进伺服系统 Step Servo System	
混合式直线电机 Hybrid Linear Motor	
行星减速步进电机 Planetary Gearbox Stepper Motor	
步进伺服一体机 Integrated Drive	
磁滞制动器 Hysteresis Brake	
直流无刷电机 DC Brushless Motor	
行星减速无刷电机 Planetary Gearbox Brushless Motor	
伺服电机 Servo Motor	
滚珠丝杆直线伺服电机 Ball Screw Linear Servo Motor	
无框伺服电机 Frameless Servo Motor	
外转子直流无刷电机 Outer Roter BLDC Motor	
低压伺服一体机 Integrated Low Voltage Servo	



SS 步进伺服系统 Step-Servo System

SS步进伺服系统是专门设计与步进伺服电机配对，以创建电机和驱动组合，胜过传统的步进电机系统。每一个步进伺服电机是一个高级的，两相，混合步进电机与集成的高分辨率反馈装置。当使用步进伺服电机与我们的一种步进伺服驱动器相结合时，所获得的性能提升包括更高的峰值转矩范围，以更快的加速度和更大的机器吞吐量，以及更安静的操作和更少的功耗。

Step-Servo System are specifically designed to be paired with Step-Servo Motor to create motor and drive combinations that outperform traditional step motor systems. Each Step-Servo motor is a premium, two-phase, hybrid step motor built with an integral high resolution feedback device. The performance gains achieved when using a Step-Servo motor in combination with one of our Step-Servo drives include high peak torque ranges for faster acceleration and greater machine throughput, as well as quieter operation and less power consumption.

SS系列是一款高性能，智能型的步进伺服驱动系统。将伺服控制技术融入步进系统中实现闭环控制，创造出开环系统难以实现的优异性能。采用最新32位DSP数字处理技术，驱动器控制算法采用先进的伺服控制算法和FOC控制技术，驱动器发热小，电机振动小，运行平稳。用户可以设置200~25600内的任意细分以及额定电流内的任意电流值，能够满足大多数场合的应用需要。

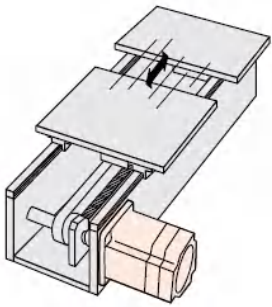
■ 特性

- 全新32位DSP技术
- 16种细分选择
- 伺服控制算法，速度位置控制准确，响应性好
- 根据负载实时调整电流大小，将发热降至最低
- 自动匹配电机参数，优化电流控制
- 脉冲+方向/CW+CCW两种模式
- 1MHz数字信号滤波器
- 自检模式：电机以180RPM的速度反复正反转运动

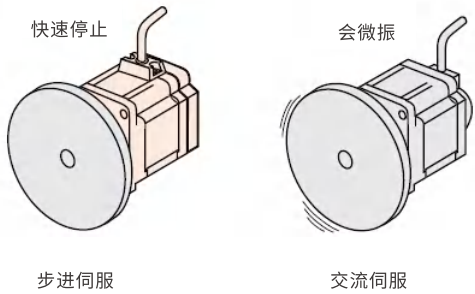
■ 描述及应用

创新的闭环步进伺服驱动器。采用了高分辨率编码器，不断监测当前电机轴的位置。随着编码器反馈功能，每20微秒不断更新当前的位置信息，如果有必要SS步进伺服立即采取纠正措施，以弥补损失的步数。

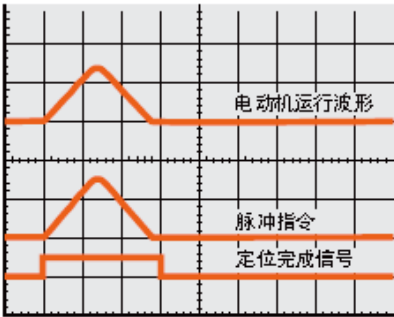
参数设置简单。为了全面提高控制性能，调整了伺服系统的增益是最关键的一步。根据负荷变化的来调整参数，这是一项长期，繁琐，麻烦，耗时一个应用领域工程师的很多的精力。SS步进伺服完全采用封闭式步进电机控制回路的独特算法，消除这些繁琐的步骤，并给予工程师一个高性能伺服系统的效果。SS步进伺服是非常适合于低刚度负载（例如，皮带和滑轮系统），在大多数伺服系统中常见的问题是，在不同刚性负载的情况下伺服系统不能保持最佳的表现。SS步进伺服无需繁琐调整即可在全范围内保持最佳伺服效果。



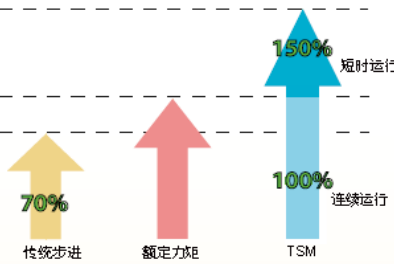
电机停止时没有调整问题。与传统的伺服电机驱动相反，SS步进伺服利用步进电机的独特性能而使电机停止时没有调整问题，在达到理想的目标位置后，SS步进伺服无位置波动。此功能，尤其是在应用过程中非常有用。例如视觉系统中的定位后的振动问题



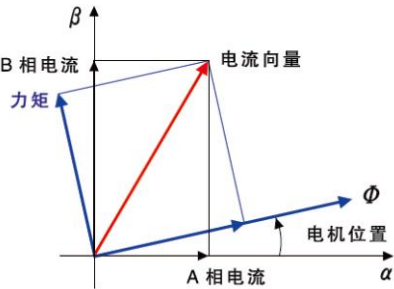
指令高响应性。SS步进伺服具有良好的指令脉冲同步，实现了短暂和快速的定位反应，因此短距离快速动作是SS步进伺服的独特特点。



输出大的力矩。SS步进伺服在非常宽的速度范围内输出很大的力矩。驱动器可以做到在100%的负载时连续运行，无需担心电机驱动负载的能力，这与传统的微步（细分）驱动器完全不同。SS步进伺服根据电机的转速，采用了独创的电流控制技术以做到高速范围依旧可以输出大力矩。

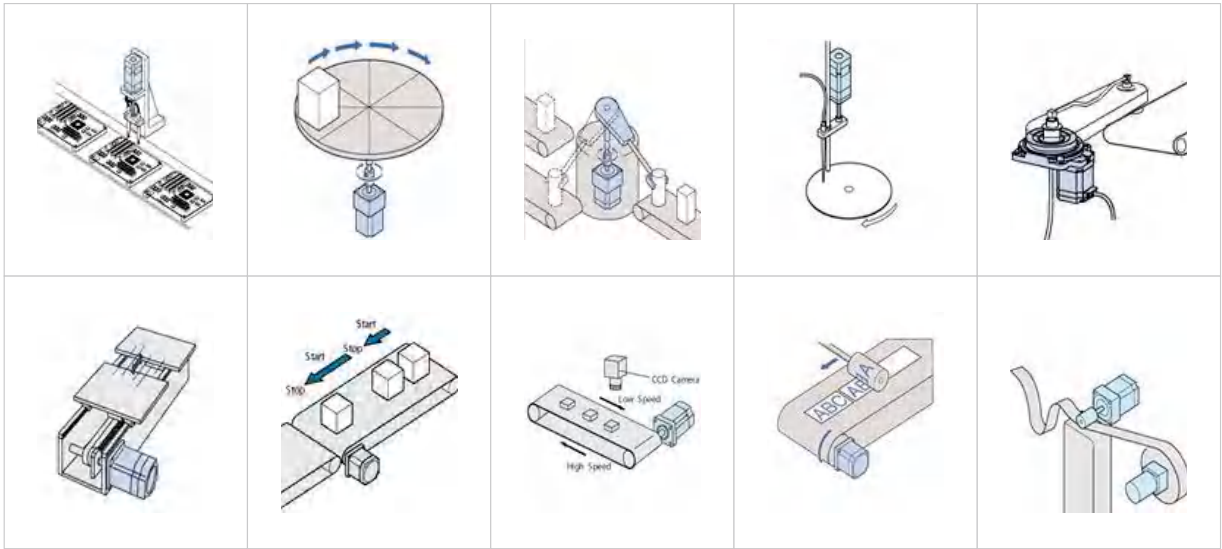


平滑及高精度。标准配备编码器的精度为10000个脉冲/圈，细分后可达50000个脉冲/圈。与标准的（细分）驱动器不同，它采用32位高速DSP+矢量控制和滤波技术，从而达到平滑及高精度。最低平滑无蠕动速度小于0.2转/分钟，角度精度<0.0360°



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无框伺服电机 Frameless Servo Motor	
外转子直流无刷电机 Outer Roter BLDC Motor	
低压伺服一体机 Integrated Low Voltage Servo	

应用范围。可用于机器视觉检测设备,医疗设备,标签机,LCD切割,小型雕刻机,半导体加工装置(绑定、编带、分选机…)等。



■ 一般规格

项目		SSM电机部分	驱动器部分SS serie
绝缘电阻		于常温常湿下连续运行后,以DC500V高阻表测量电动机线圈与外壳之间的测量值为100MΩ以上。	于常温常湿下连续运行后,电源端子与保护接地端子间、电源端子与I/O端子间的电阻值以DC500V高阻表测量达100MΩ以上。
绝缘耐压		于常温常湿下连续运行后,线圈、外壳间以50Hz、AC1.5kV施加1分钟无异常。	于常温常湿下连续运行后,电源输入和散热板间以50Hz、AC0.5kV施加1分钟无异常。
温度上升		于常温常湿下连续运行后,以热电偶法测量的线圈温度上升值在50℃以下、测量的外壳表面温度上升值在40℃以下。	于常温常湿下连续运行后,以热电偶法测量的散热板温度上升值在50℃以下。
使用环境	环境温度	0~+50℃	
	环境湿度	85%以下（无结露）	
	标高	海拔1000m以下	
	介质	无腐蚀性气体或尘埃等、不可在含有放射性物质、磁场以及真空等特殊环境中	
	环境	使用	
保存环境 *1	振动	不可施加连续振动或过度冲击依据,JIS C 60068-2-6,正弦波振动测试方法频率范围:10~55Hz,单振幅:0.15mm,摇摆方向:3方向(X、Y、Z),摇摆次数:20次	
	环境温度	-25~+70℃（无结冰）	
	环境湿度	环境湿度85%以下(无结露)	
绝缘等级		EN规格:E種(120℃)	
保护等级		IP65(圆轴型的安装面与连接器部分除外)	IP27

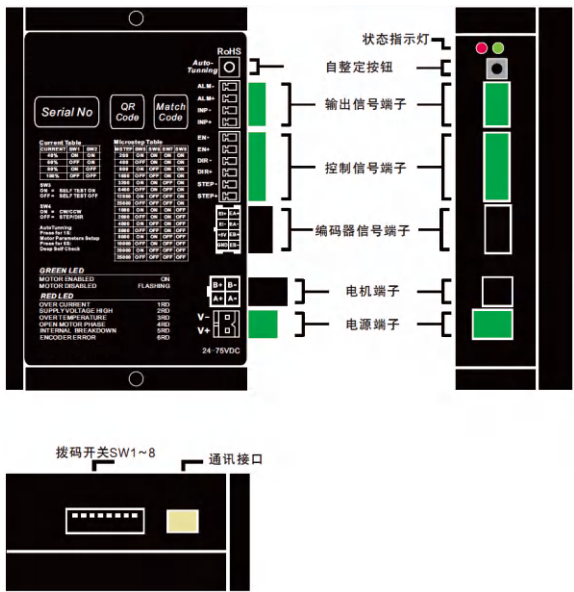
*1 保存环境也包括运送途中的短期值。
请注意

■ 驱动器产品规格

驱动器参数	最小值	典型值	最大值	单位
供电电压	24	-	75	VDC
输出电流(峰值)	1.0	-	9.8	A
控制信号输入电流	6	10	15	mA
控制信号接口电平	4.0	5.0	28.0	VDC
步进脉冲频率	2	-	1M	Hz
步进脉冲宽度	250	-	-	Ns
方向信号宽度	50	-	-	us
驱动器初始化时间	-	-	2	S

冷却方式		自然冷却或强制冷却
使用环境	场合	避免粉尘、油污及腐蚀性气体
	温度	0℃ ~ 40℃
	湿度	90%RH(不结露)
	震动	5.9m max
存储温度		-10~70℃
重量		约300g

■ 端子与接线



• 电源端子

名称	说明
V+	输入直流电源24~75VDC正极
V-	输入直流电源24~75VDC负极

• 电机端子

名称	说明
A+	电机A相线圈接口
A-	电机A相线圈接口
B+	电机B相线圈接口
B-	电机B相线圈接口

• 编码器信号端子

名称	说明
+5V	编码器供电电源接口
GND	
EA+	编码器A相差分输入
EA-	
EB+	编码器B相差分输入
EB-	
EI+	编码器I相差分输入
EI-	

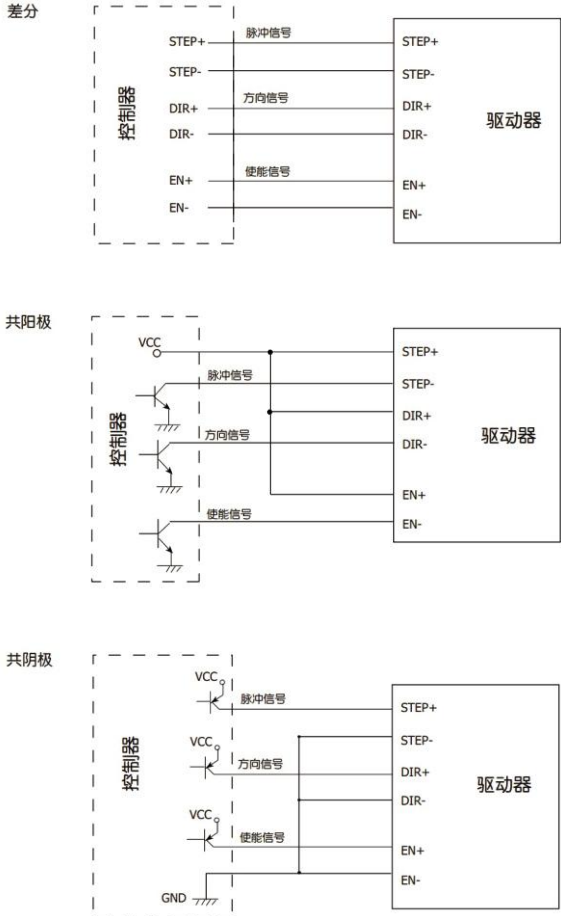
• 控制信号端子

名称	说明
STEP+	脉冲信号:脉冲上升沿有效;PUL高电平时4.5~28VDC,低电平时0~0.5V。为了可靠响应脉冲信号,脉冲宽度应大于1.5μs。
STEP-	
DIR+	方向信号:高/低电平信号,为保证电机可靠换向,方向信号应先于脉冲信号至少 2μs建立。电机的初始运行方向与电机的接线有关, DIR高电平时4.5~28VDC,低电平时0~0.5V。
DIR-	
EN+	使能信号:此输入信号用于使能或禁止。ENA+ 接4.5~28VDC,ENA-接低电平(或内部光耦导通)时,驱动器将切断电机各相的电流使电机处于自由状态,此时步进脉冲不被响应。当不需此功能时,使能信号端悬空即可。当电机处于报错状态时,EN输入可用于重启驱动器。首先从应用系统中排除存在的故障,然后输入一个下降沿信号至EN端,驱动器可重新启动功率部分,电机励磁运转。
EN-	

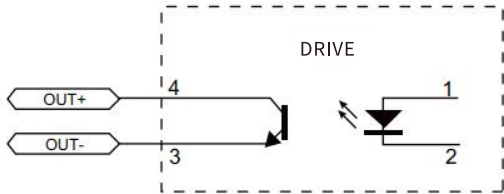
• 输出信号端子

名称	说明
INP+	到位信号,光耦隔离OC输出,最高承受电压30VDC,最大饱和电流100mA,电机未转到目标位置时,输出光耦不导通。
INP-	
ALM+	报警信号,光耦隔离OC输出,最高承受电压30VDC,最大饱和电流100mA,驱动器正常工作时,输出光耦不导通。
ALM-	

• 控制信号输入示例

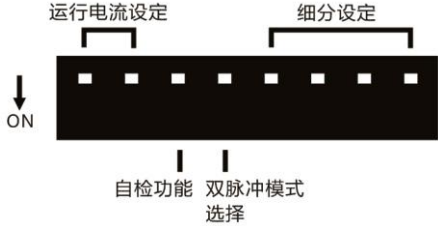


• 报错, 到位输出接口连接



■ 拨码开关设定

SS驱动器采用8位拨码开关设定细分精度、动态电流、自检功能以及实现脉冲模式选择。详细描述如下:



• 运行电流设定

在驱动器匹配好电机型号之后, 运行电流拨码可以设定实际输出电流为电机额定电流的40%~100%。

额定电流	SW1	SW2
40%	ON	ON
60%	OFF	ON
80%	ON	OFF
100%	OFF	OFF

• 细分设定

细分(step/rev)	SW5	SW6	SW7	SW8
200	ON	ON	ON	ON
400	OFF	ON	ON	ON
800	ON	OFF	ON	ON
1600	OFF	OFF	ON	ON
3200	ON	ON	OFF	ON
6400	OFF	ON	OFF	ON
12800	ON	OFF	OFF	ON
25600	OFF	OFF	OFF	ON
1000	ON	ON	ON	OFF
2000	OFF	ON	ON	OFF
4000	ON	OFF	ON	OFF
5000	OFF	OFF	ON	OFF
8000	ON	ON	OFF	OFF
10000	OFF	ON	OFF	OFF
20000	ON	OFF	OFF	OFF
25000	OFF	OFF	OFF	OFF

• 自检功能, 单双脉冲模式选择

SW3用于设定电机的自检功能, 设定开关SW3为“ON”, 控制器上电后将按先顺时针再逆时针方向各旋转2圈反复控制电机运行。任意时刻设定SW9为“OFF”则关闭该功能。

SW4可以设置控制信号的模式, 当SW4为OFF时候, 上位机需要提供一路脉冲信号一路方向信号。当SW10为ON的时候, 可以使用两路脉冲信号分别控制电机的正反转, 此时输入STEP端子的脉冲控制电机CW方向的运动, 输入DIR的脉冲控制电机的CCW方向的运动。

• 自整定功能

AutoTunning 按钮用于电机与驱动器的匹配。正常情况下出厂时电机与驱动器已经完成了一对一的匹配工作, 不需要客户对电机和驱动器进行匹配。当现场状况需要重新进行匹配的时候, 请让电机在轴上无负载情况下, 按照以下步骤进行自整定。按住autotunning按钮1秒钟, 绿灯会开始闪烁, 等到绿灯重新常亮, 匹配工作做完后, 需要重新上电, 即完成了驱动器和电机的匹配工作。

■ 状态指示灯

绿色LED为使能指示灯, 当电机使能时, 该LED常亮; 当电机未使能时候, 该LED闪烁。红色LED为故障指示灯, 当出现故障时, 该指示灯以循环闪烁; 当故障被用户清除时, 红色LED常灭。红色LED闪烁次数代表不同的故障信息, 具体关系如下表所示:

报警代码		说明
●	绿灯长亮	驱动器使能
●●	绿灯闪烁	驱动器未使能
●●●	红灯熄灭	驱动器正常
●●●●	红灯闪1次	驱动器过流
●●●●●	红灯闪2次	供电电压过高
●●●●●●	红灯闪3次	驱动器过温
●●●●●●●	红灯闪4次	电机相线开路
●●●●●●●●	红灯闪5次	驱动器内部故障
●●●●●●●●●	红灯闪6次	编码器故障

• 安全注意事项

下文所述的预防措施是为了防止发生危险或伤害用户和其他通过人员安全, 正确使用该产品。请使用本产品前彻底阅读和理解这些预防措施。

⚠ 警告

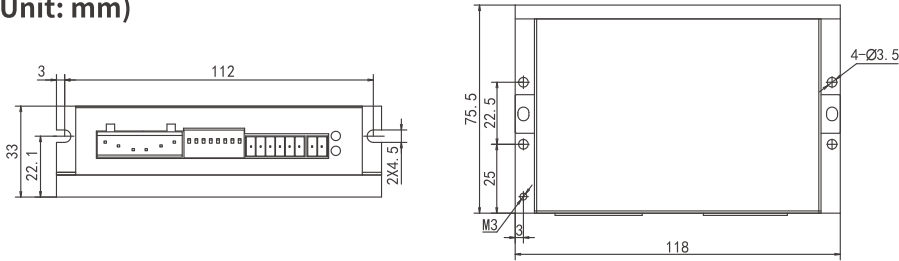
- 运行期间严禁打开外壳测量或触摸底板上任何器件和接插件。
- 如果驱动器在运行期间意外损坏, 本公司只负责承担驱动器在保修范围内的维修和更换。
- 本公司不承担由于驱动器意外损坏导致的电机失控或人员伤亡以及财产损失等的赔。
- 不要在暴露于爆炸性, 易燃性, 腐蚀性气体或水溅或附近的一个地方使用该产品可燃材料。这样做可能会导致火灾, 触电或人身伤害。
- 只有合格的人员才能应允许安装, 连接, 操作和执行检查/排除产品的故障。不合格人员的处理, 可能会导致火灾, 触电, 人身伤害或设备损坏。
- 在驱动器有电的情况下不要移动, 安装, 连接或检查产品, 执行这些操作时必须关闭电源。不遵守这些说明, 可能会导致触电。
- 对驱动器的前面板有 ⚠ 符号标记的终端为显示高电压的存在。不要触摸这些终端电源, 以避免火灾或触电的危险。
- 在垂直应用不要使用非电磁制动器。如果驱动器的保护功能激活时, 电机可能无法停止尔导致设备的移动部分可能会下降, 从而导致人身伤害或设备损坏。
- 安装时, 电机及驱动器其保护接地端子必须连接。如果不这样做可能会导致触电。
- 不要强行弯曲, 拉或捏电缆。这样做可能会导致火灾或触电。
- 观察接线端子, 接线端子的螺丝要拧紧。如果不这样做可能会导致触电或火灾。
- 始终保持驱动器的电源供电电压低于额定值。如果不这样做可能会导致火灾或驱动器损坏。
- 执行维护/检查之前, 务必关闭电源。如果不这样做可能会导致触电。
- 关闭电源后不要立即触摸驱动器上的连接端子 (在30秒内, 或直至电源LED关闭)。残余电压可能造成触电。
- 定期检查清洁驱动器的开口部分积聚的灰尘。积聚的灰尘可能会引起火灾。
- 不要拆卸或维修电机和驱动器。这样做可能会导致触电, 受伤或设备损坏。如果您需要检查或维 修内部零件, 请联系销售公司

■ 电机规格

型号	匹配 驱动器	静力矩	转子惯量	编码器 分辨率	最高 转速	安装 尺寸	允许悬挂负载 (N)						允许轴 向负载 (N)
		Nm	gcm ²	脉冲/圈	RPM	mm	距轴端的距离 (mm)						
11SSM3413	SS5	0.065	8	2500	3600	28	20	25	34	52	-	电 机 本 身 重 量 以 下	
11SSM4413		0.08	11				35	20	25	34	52		-
11SSM5413		0.12	14										
14HSM3418	SS5	0.2	18			42							
14HSM5418		0.35	22										
17SSM3403	SS5	0.3	35			57	63	75	95	130	190		
17SSM8403		0.5	77										
17SSM6403		0.8	115										
23HSM6404	SS5	1.1	280			86	90	100	130	180	270		
23HSM80404		2.2	480										
23HSM1460	SS9	2.5	680										
24HSM4442	SS5	0.9	200										
24HSM6442		1.6	350										
23HSM1456		SS9	2.8										780
34HSM8402	SS9	4.2	1050										
34HSM4402		8.2	1800										
34HSM5402		12	2500										

■ 驱动器机械尺寸(单位Unit: mm)

SS5/SS9 ▶



NEMA11(□28mm)2相1.8°-11SSM Series



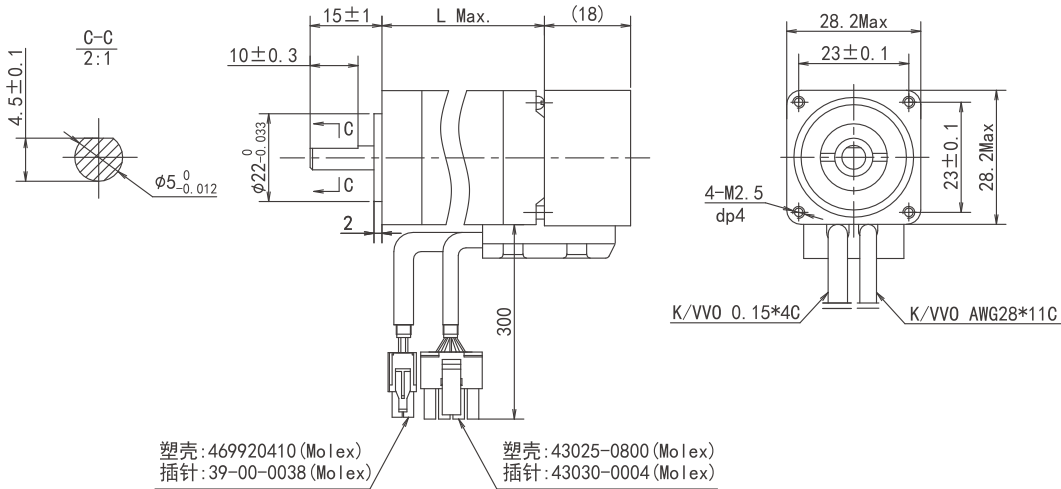
- 低振动 Low vibration
- 低噪音 Low noise
- 低发热 Low fever
- 高效率 High efficiency
- 高响应 High response
- 高精度 High precision
- 大力矩 High torque

■ 技术数据 Electrical Specifications

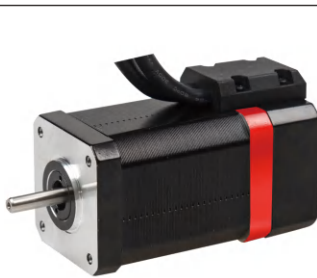
型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
11SSM3413EG	1.3	1.5	1.1	4	7.0	34	9	115	1.8
11SSM4413EG	1.3	1.9	2.5		8.0	41	12	145	
11SSM5413EG	1.3	2.4	2.3		12	50	18	175	
编码器分辨率 (P/R) Encoder Resolution		2500			长线驱动输出 Line Driver Output		3-channel:A+A-B+B-Z+Z-		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



NEMA14(□35mm)2相1.8°-14HSM Series



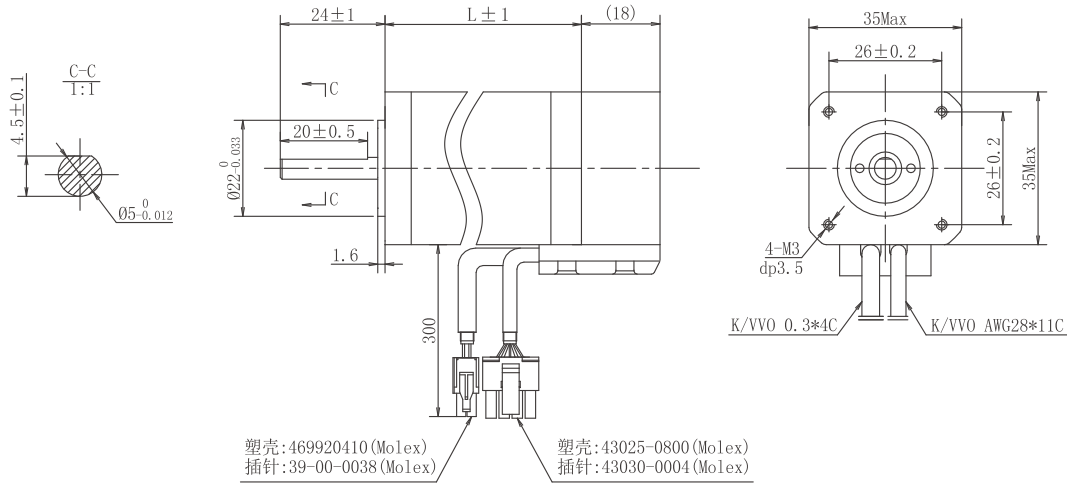
- 低振动 Low vibration
- 低噪音 Low noise
- 低发热 Low fever
- 高效率 High efficiency
- 高响应 High response
- 高精度 High precision
- 大力矩 High torque

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
14HSM3418EG	1.8	1.7	2.1	4	20	34	20	250	1.8
14HSM5418EG	1.8	2.9	4.8		35	53	31	390	
编码器分辨率 (P/R) Encoder Resolution		2500			长线驱动输出 Line Driver Output		3-channel:A+A-B+B-Z+Z-		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



NEMA17(□42mm)2相1.8°-17SSM Series



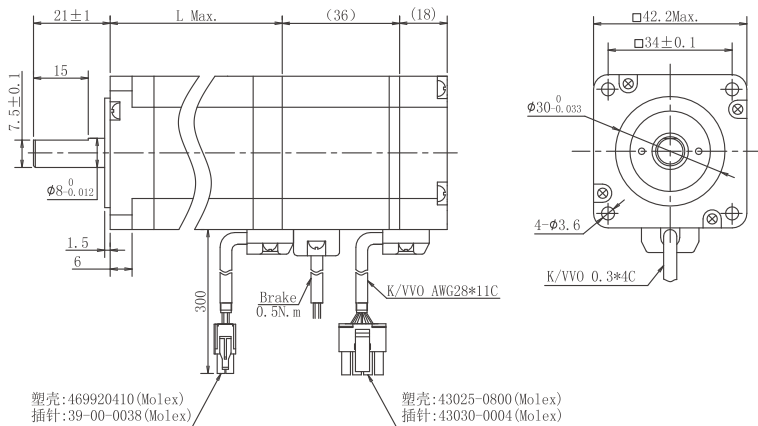
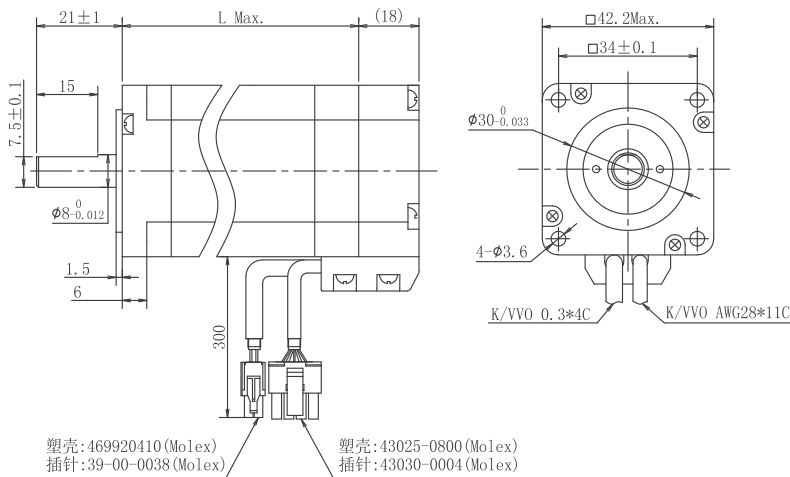
低振动	Low vibration
低噪音	Low noise
低发热	Low fever
高效率	High efficiency
高响应	High response
高精度	High precision
大力矩	High torque

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17SSM3403EG	2.3	0.7	2.3	4	30	37	35	170	1.8
17SSM8403EG	2.3	1.0	1.9		50	51	77	420	
17SSM6403EG	2.3	1.4	3.1		80	67	115	530	
编码器分辨率 (P/R) Encoder Resolution		2500			长线驱动输出 Line Driver Output		3-channel:A+A-B+B-Z+Z-		

*以上仅为代表性产品,派生产品可根据客户要求制作 *Note:We can manufacture products according to customer's requirements.

■ 外形图 Dimensions(单位Unit: mm)



加刹车 ▲

NEMA23(□57mm)2相1.8°-23HSM Series



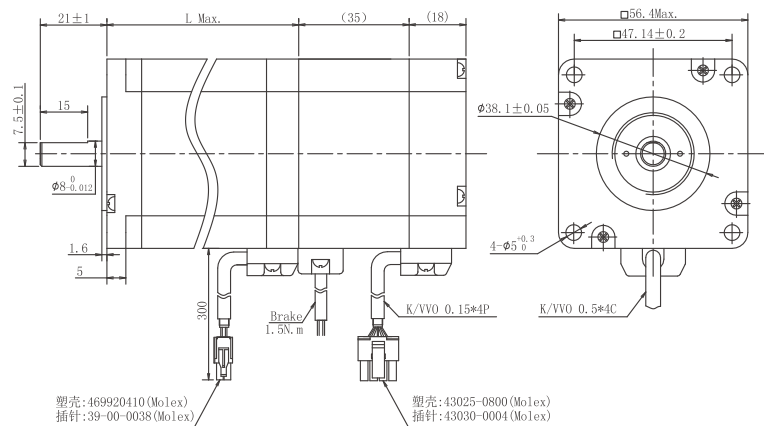
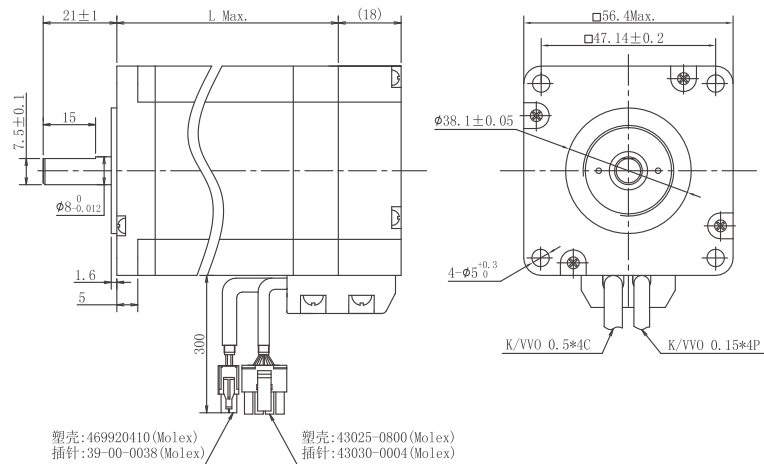
低振动	Low vibration
低噪音	Low noise
低发热	Low fever
高效率	High efficiency
高响应	High response
高精度	High precision
大力矩	High torque

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
23HSM6404EG	4.2	0.4	1.2	4	1.1	54	980	420	1.8
23HSM80404EG		0.7	2.0		2.2	80	480	1050	
23HSM1460EG	6.0	0.38	1.5		2.7	100	680	1250	
编码器分辨率 (P/R) Encoder Resolution		2500			长线驱动输出 Line Driver Output		3-channel:A+A-B+B-Z+Z-		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer's requirements.

■ 外形图 Dimensions(单位Unit: mm)



加刹车 ▲

NEMA24(□60mm)2相1.8°-24HSM Series



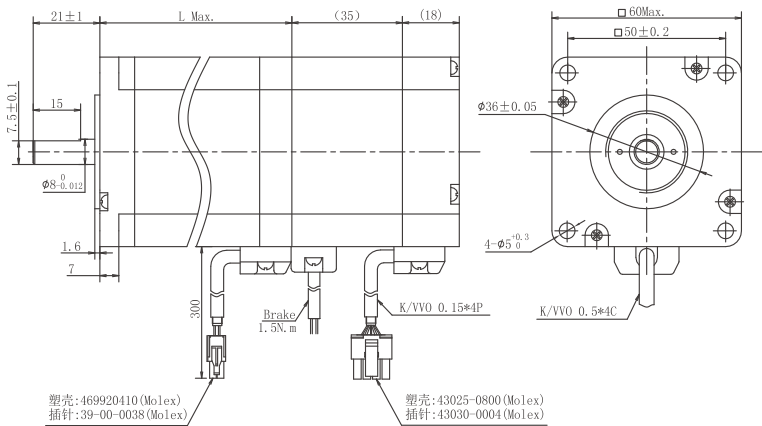
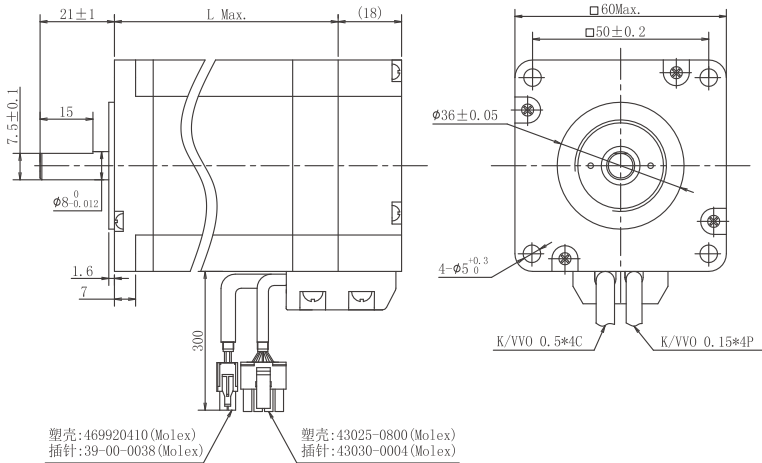
- 低振动 Low vibration
- 低噪音 Low noise
- 低发热 Low fever
- 高效率 High efficiency
- 高响应 High response
- 高精度 High precision
- 大力矩 High torque

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
24HSM4442EG	4.2	0.4	0.7	4	0.9	45	200	550	1.8
24HSM6442EG		0.5	1.4		1.6	54	350	700	
24HSM1456EG	5.5	0.42	1.8		3.0	90	780	1150	
编码器分辨率 (P/R) Encoder Resolution		2500			长线驱动输出 Line Driver Output		3-channel:A+A-B+B-Z+Z-		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



加刹车 ▲

NEMA34(□86mm)2相1.8°-34HSM Series



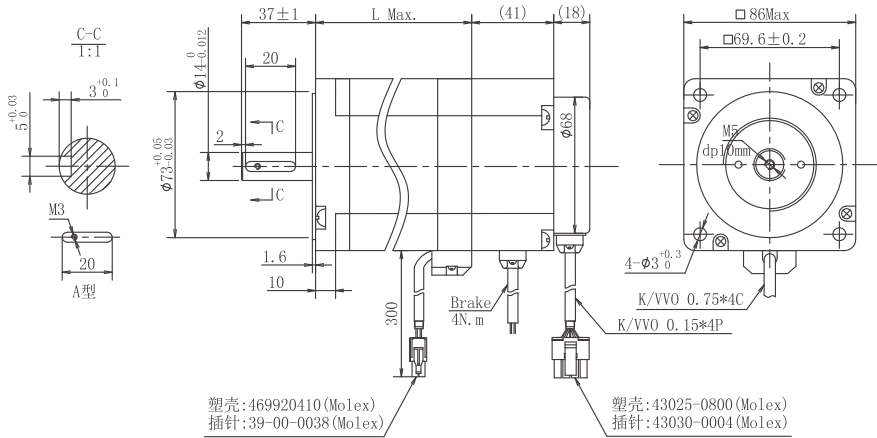
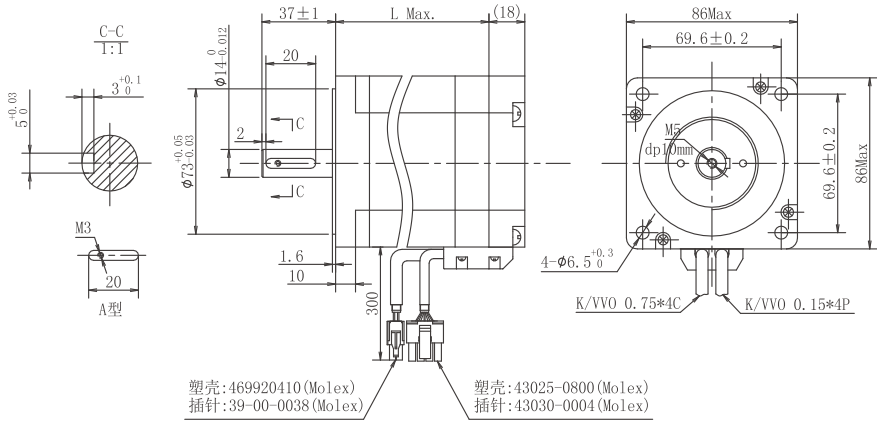
- 低振动 Low vibration
- 低噪音 Low noise
- 低发热 Low fever
- 高效率 High efficiency
- 高响应 High response
- 高精度 High precision
- 大力矩 High torque

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (kg)	步距角 Step Angle (°)
34HSM8402EG	7.0	0.2	1.6	4	4.2	78	1050	2.5	1.8
34HSM4402EG	7.0	0.3	3.2		8.0	114	1800	3.5	
34HSM5402EG	7.0	0.4	5.0		12.0	150	2500	4.2	
编码器分辨率 (P/R) Encoder Resolution		2500			长线驱动输出 Line Driver Output		3-channel:A+A-B+B-Z+Z-		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)

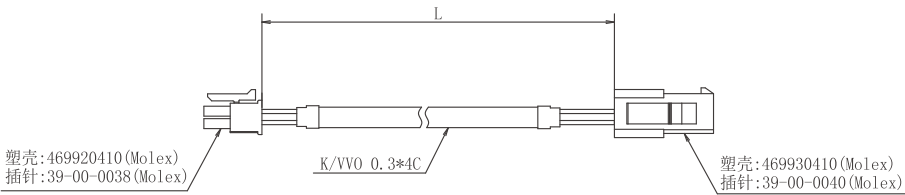


加刹车 ▲

■ 可选配件 Optional Accessories (需另购With the purchase)

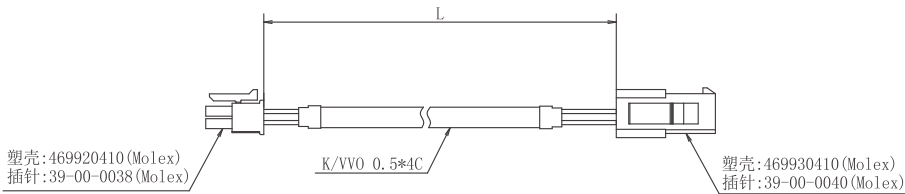
- 电机延长线 Motor Extension Cord

11SSM / 14HSM / 17SSM ▶



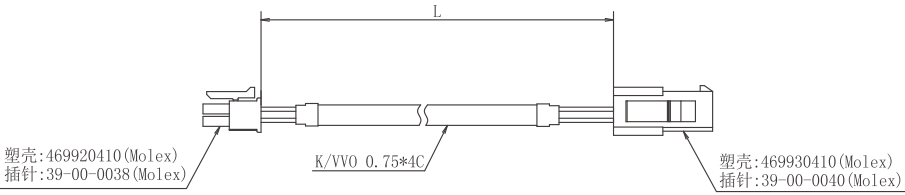
型号	长度 (L)
17-469920410/469930410-100A	1M
17-469920410/469930410-200A	2M
17-469920410/469930410-500A	5M
17-469920410/469930410-1000A	10M

23HSM / 24HSM ▶



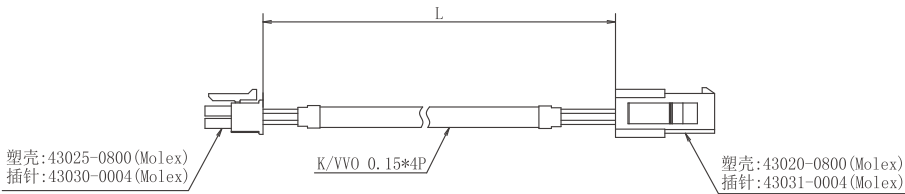
型号	长度 (L)
23-469920410/469930410-100A	1M
23-469920410/469930410-200A	2M
23-469920410/469930410-500A	5M
23-469920410/469930410-1000A	10M

34HSM ▶



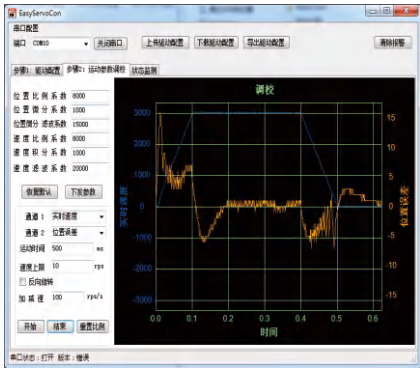
型号	长度 (L)
34-469920410/469930410-100A	1M
34-469920410/469930410-200A	2M
34-469920410/469930410-500A	5M
34-469920410/469930410-1000A	10M

编码器延长线 ▶
Encoder extension cord

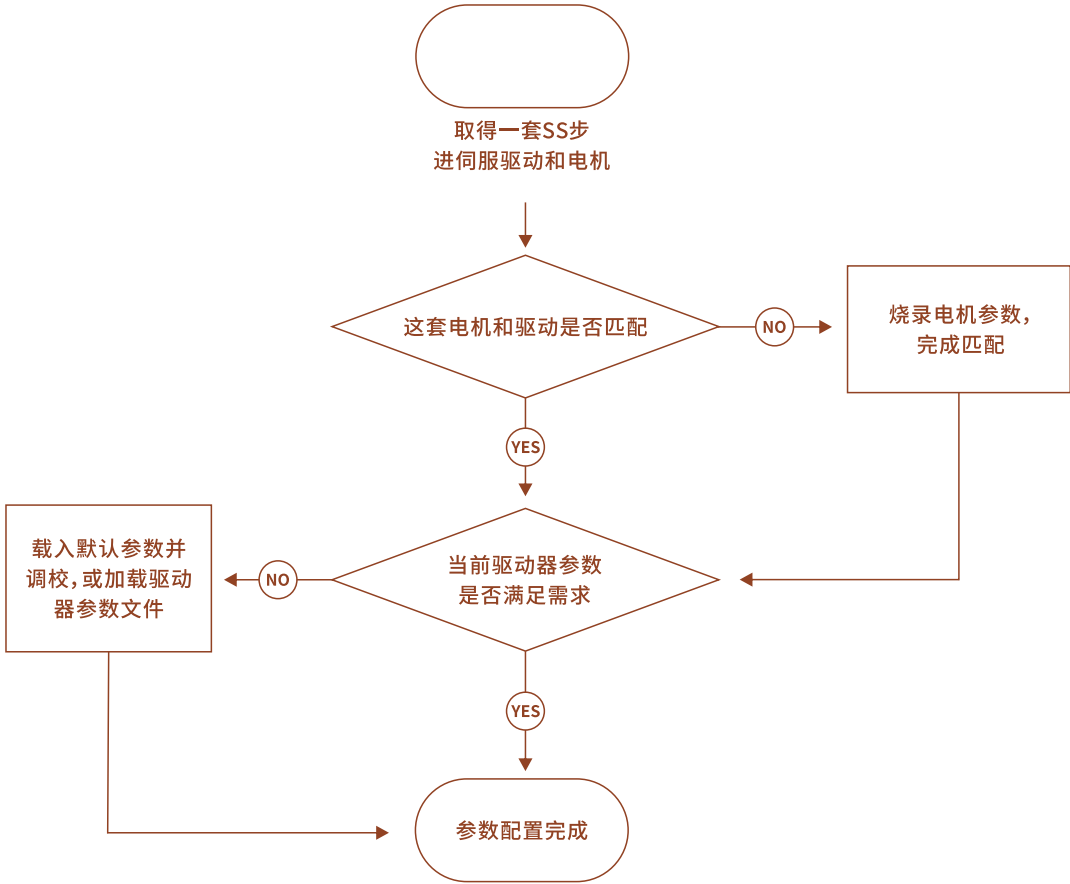


型号	长度 (L)
430250800/430200800-100A	1M
430250800/430200800-200A	2M
430250800/430200800-500A	5M
430250800/430200800-1000A	10M

■ SS步进伺服系统快速上手指南 Started Guide



由于电机个体一致性的差异和伺服算法的要求, 只有对驱动器和步进电机进行一对一的匹配, 并将运动参数调整到最适合前负载工况的情况下才能使本产品效果达到最优。出厂时, 电机与驱动器已经成套匹配好, 成套的驱动器和电机上都贴有相同的2位的匹配码, 并且驱动器中存储了该型号电机的默认运动参数, 客户收到后只需要调整相关运动参数即可。

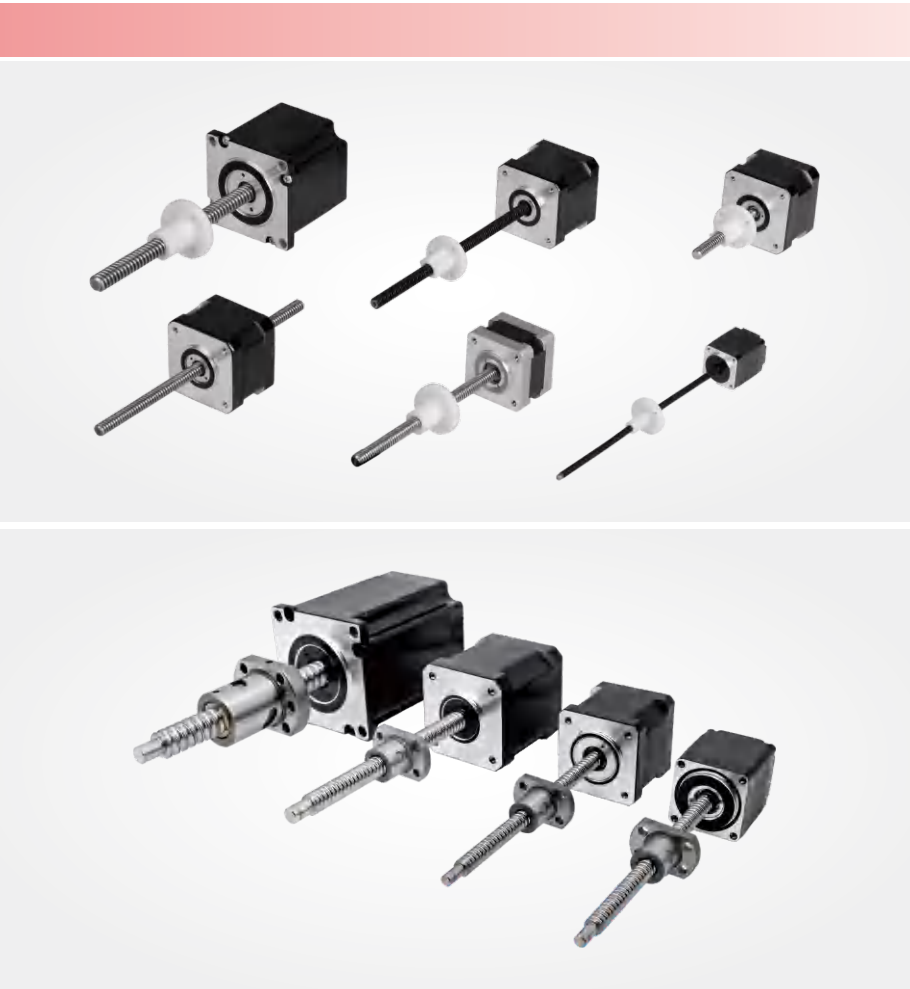


混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

HYBRID LINEAR STEPPER MOTOR SERIES

混合式直线电机系列

03



混合式直线电机 Hybrid Linear Stepper Motor

混合式步进直线电机是以混合式电机作为动力源,通过先进的工艺技术,将螺纹传动组件与电机转子结合在一起,将电机旋转运动转化为直线运动。我们生产的混合式线性电机采用高效率传动螺纹设计与独有的轴承技术,电机在传动效率、可靠性、承载力和寿命上优于市场上的同类产品,比常用的金属螺母结构设计更是优势明显,寿命上至少提高8倍以上。适合空间有限,对电机性能和可靠性要求较高,定位精密,运动快速和长寿命的场合。

The hybrid linear stepper motor takes the hybrid motor as the power source, through the advanced technology, the screw drive component is combined with the motor rotor, and the motor rotation motion is converted to the linear motion. The hybrid linear motor of hangzhou Anjo brand adopts the high-efficiency transmission screw design and unique bearing technology, and the motor is superior to the similar products in the market in transmission efficiency, reliability, bearing capacity and life, which is more advantageous than the commonly used metal nut structure design, and the life can be improved at least 8 times. Suitable for occasions with limited space, high requirements for motor performance and reliability, precision positioning, fast motion and long life.

混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

混合式直线电机 Hybrid Linear Motor

NEMA8 (□20mm) 混合式直线电机-2相1.8°-8HY 2 Phase



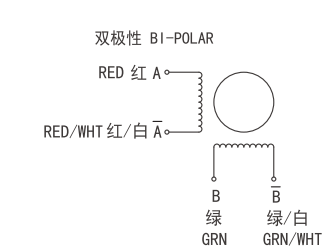
高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	步距角 Step Angle (°)
8HY3402	0.2	25	9.2	4	1.8	34	1.8
8HY4402		32	9.9		2.6	40	
8HY4406	0.6	5.8	1.8		2.6	40	

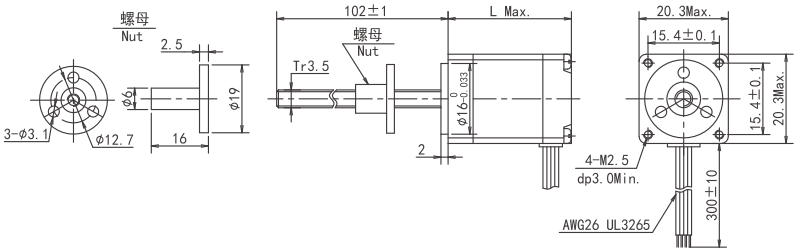
*以上仅为代表性产品, 派生产品可根据客户要求制作, 选型时请与我司联系
*Note: We can manufacture products according to customer's requirements, please contact us when you choose the motor type.

■ 接线图 Wiring Diagram



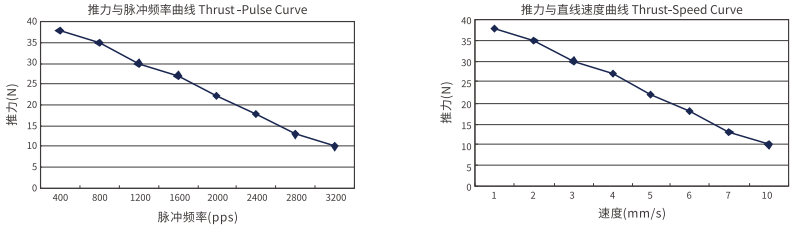
■ 外形图 Dimensions(单位Unit: mm)

外部驱动式 External



■ 动态推力曲线 Dynamic Thrust Curve

驱动方式:整步 Drive Mode:Full Step 编码:351 Code:351



混合式直线电机 Hybrid Linear Motor

NEMA11 (□28mm) 混合式直线电机-2相1.8°-11HY 2 Phase



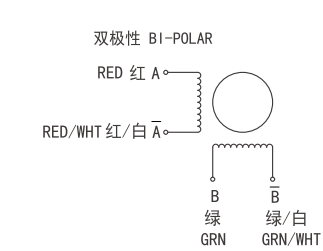
高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	步距角 Step Angle (°)
11HY3402	0.35	15	12	4	6	33	1.8
11HY4401	0.67	7.0	7.0		8	41	
11HY5401		9.0	8.0		10	50	

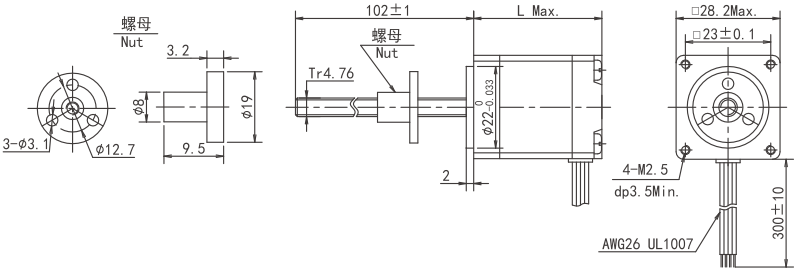
*以上仅为代表性产品, 派生产品可根据客户要求制作, 选型时请与我司联系
*Note: We can manufacture products according to customer's requirements, please contact us when you choose the motor type.

■ 接线图 Wiring Diagram



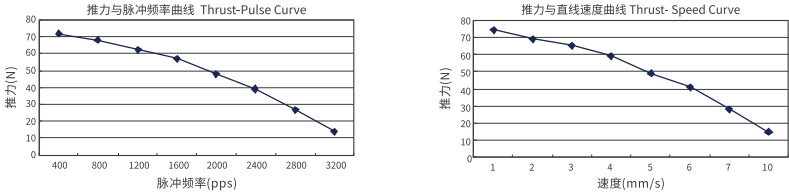
■ 外形图 Dimensions(单位Unit: mm)

外部驱动式 External



■ 动态推力曲线 Dynamic Thrust Curve

驱动方式:整步 Drive Mode:Full Step 编码:471 Code:471



混合式直线电机 Hybrid Linear Motor

NEMA14 (□35mm) 混合式直线电机-2相1.8°-14HS 2 Phase



高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長 L Motor Length L (mm)	步距角 Step Angle (°)
14HS3402	0.8	7.5	11	4	22	34	1.8
14HS3415	1.5	2.2	3.0				
14HS6415		2.8	4.2		28	44	

*以上仅为代表性产品, 派生产品可根据客户要求制作, 选型时请与我司联系
*Note: We can manufacture products according to customer’s requirements, please contact us when you choose the motor type.

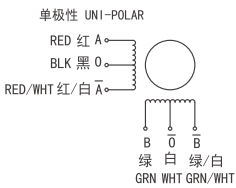
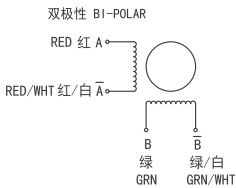
■ 丝杆说明 Screw Specification

编码 Code	直径(D) Diameter ΦD	步长 Linear travel per step	导程 Step
631-1.27	Φ6.35	0.00635	1.27
631-1.59		0.0079	1.5875
632-2.43		0.01219	2.4384
632-2.54		0.0127	2.54
634-4.87		0.02438	4.8768

*出轴长度可根据客户要求定制 The shaft length can be custom-made

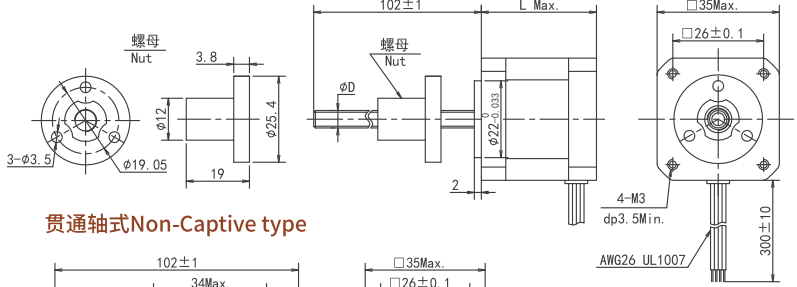
编码 Code	直径(D) Diameter ΦD	步长 Linear travel per step	导程 Step
634-5.08	Φ6.35	0.0254	5.08
634-6.35		0.03175	6.35
638-12.7		0.0635	12.7
638-25.4		0.127	25.4

■ 接线图 Wiring Diagram

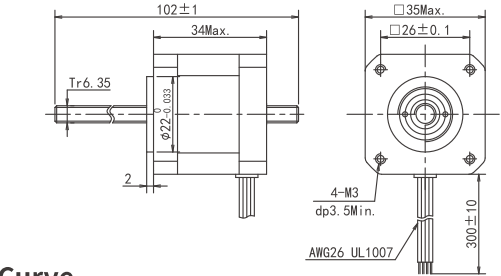


■ 外形图 Dimensions(单位Unit: mm)

外部驱动式 External

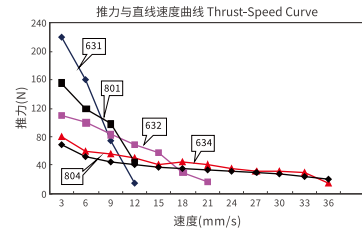
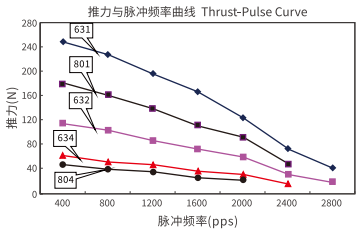


贯通轴式Non-Captive type



■ 动态推力曲线 Dynamic Thrust Curve

驱动方式:整步 Drive Mode:Full Step 编码:631、632、634、801、804 Code:631、632、634、801、804



混合式直线电机 Hybrid Linear Motor

NEMA17 (□42mm) 混合式直线电机-2相1.8°-17HS 2 Phase



高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身长 L Motor Length L (mm)	步距角 Step Angle (°)
17HS3401	1.3	2.4	3.5	4	28	34	1.8
17HS4401	1.7	1.5	2.8		40	40	
17HS8401	1.7	1.8	3.2		50	48	
17HS8630	0.4	30	28	6	34		

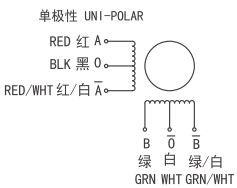
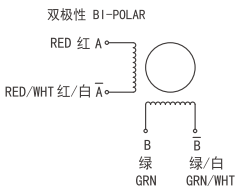
*以上仅为代表性产品, 派生产品可根据客户要求制作, 选型时请与我司联系
*Note: We can manufacture products according to customer’s requirements, please contact us when you choose the motor type.

■ 丝杆说明 Screw Specification

编码 Code	直径(D) Diameter ΦD	步长 Linear travel per step	导程 Step
631-1.27	Φ6.35	0.00635	1.27
631-1.59		0.0079	1.5875
632-2.43		0.01219	2.4384
632-2.54		0.0127	2.54
634-4.87		0.02438	4.8768
634-5.08		0.0254	5.08

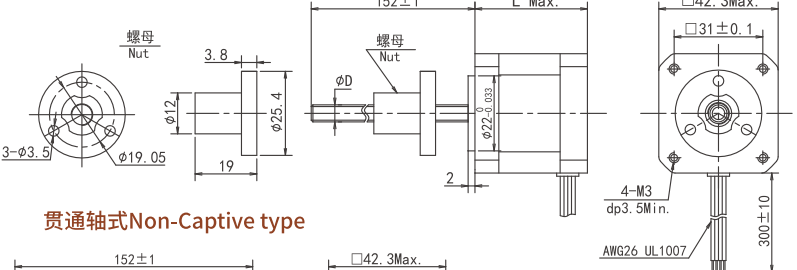
*出轴长度可根据客户要求定制 The shaft length can be custom-made

■ 接线图 Wiring Diagram

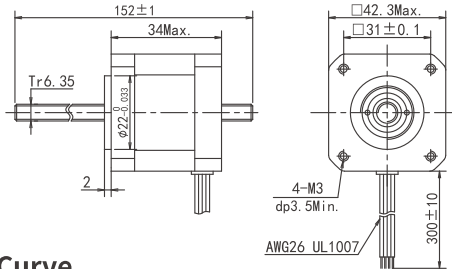


■ 外形图 Dimensions(单位Unit: mm)

外部驱动式 External

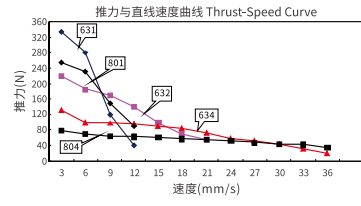
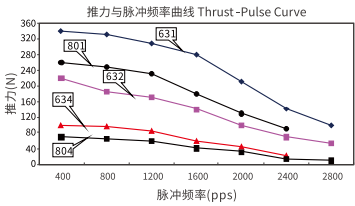


贯通轴式Non-Captive type



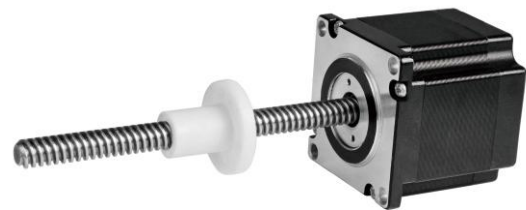
■ 动态推力曲线 Dynamic Thrust Curve

驱动方式:整步 Drive Mode:Full Step 编码:631、632、634、801、804 Code:631、632、634、801、804



混合式直线电机 Hybrid Linear Motor

NEMA23 (□57mm) 混合式直线电机-2相1.8°-23HS 2 Phase



高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长 L Motor Length L (mm)	步距角 Step Angle (°)
23HS4425	2.5	1.0	2.2	4	0.8	45	1.8
23HS6430	3.0	0.7	2.4		1.1	56	
23HS8404	4.2	0.55	1.8		1.8	76	

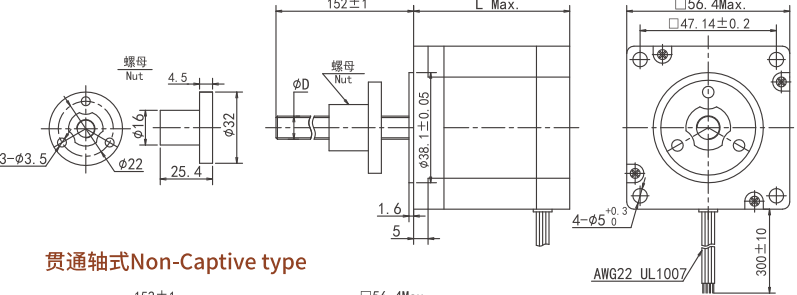
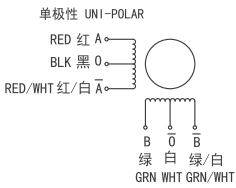
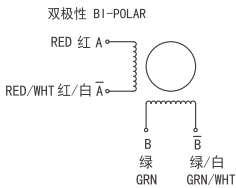
*以上仅为代表性产品, 派生产品可根据客户要求制作, 选型时请与我司联系
*Note: We can manufacture products according to customer's requirements, please contact us when you choose the motor type.

■ 丝杆说明 Screw Specification

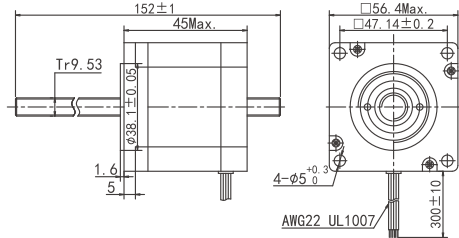
编码 Code	直径 (D) Diameter ΦD	步长 Linear travel per step	导程 Step
081-2	Φ8.0	0.01	2
082-4		0.02	4
084-8		0.04	8
951-1.27	Φ9.525	0.00635	1.27

*出轴长度可根据客户要求定制 The shaft length can be custom-made

■ 外形图 Dimensions(单位Unit: mm)
外部驱动式 External

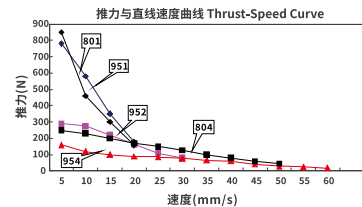
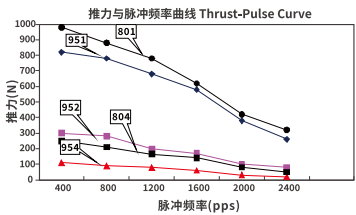


贯通轴式Non-Captive type



■ 动态推力曲线 Dynamic Thrust Curve

驱动方式: 整步 Drive Mode: Full Step 编码: 801、804、951、952、954 Code: 801、804、951、952、954



混合式直线电机 Hybrid Linear Motor

NEMA24 (□60mm) 混合式直线电机-2相1.8°-24HS 2 Phase



高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身长L Motor Length L (mm)	步距角 Step Angle (°)
24HS6428	2.8	0.85	2.8	4	1.5	56	1.8
24HS8415	1.5	6.0	16		2.2	76	
24HS8404	4.2	0.6	1.8		2.2	76	

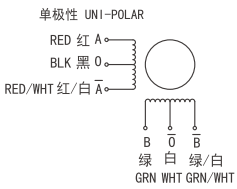
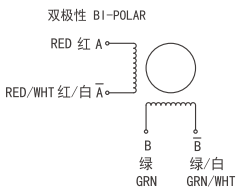
*以上仅为代表性产品, 派生产品可根据客户要求制作, 选型时请与我司联系
*Note: We can manufacture products according to customer's requirements, please contact us when you choose the motor type.

■ 丝杆说明 Screw Specification

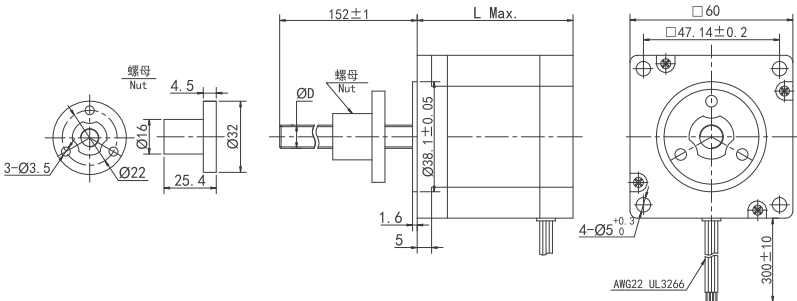
编码 Code	直径(D) Diameter ΦD	步长 Linear travel per step	导程 Step
951-1.27	Φ9.525	0.00635	1.27
954-5.08		0.0254	5.08
954-12.7		0.0635	12.7
958-10.16		0.0508	10.16

*出轴长度可根据客户要求定制
*The shaft length can be custom-made

■ 接线图 Wiring Diagram

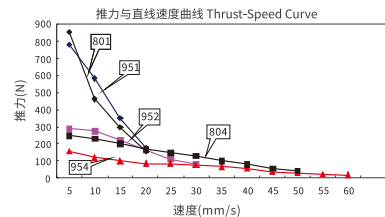
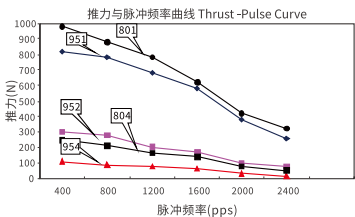


■ 外形图 Dimensions(单位Unit: mm)
外部驱动式 External



■ 动态推力曲线 Dynamic Thrust Curve

驱动方式: 整步 Drive Mode: Full Step 编码: 801、804、951、952、954 Code: 801、804、951、952、954



混合式直线电机 Hybrid Linear Motor

NEMA11 (□28mm) 滚珠丝杆直线步进电机-2相1.8°-11HY 2 Phase



高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	步距角 Step Angle (°)
11HY3409	1.0	2.0	1.5	4	6	33	1.8
11HY45410	1.0	4.1	4.0		10	45	

*以上仅为代表性产品，派生产品可根据客户要求制作，选型时请与我司联系

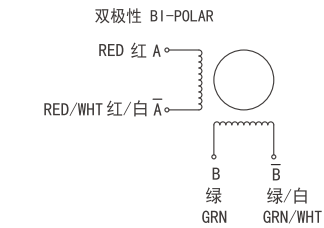
*Note:We can manufacture products according to customer’s requirements,please contact us when you choose the motor type.

■ 丝杆说明 Screw Specification

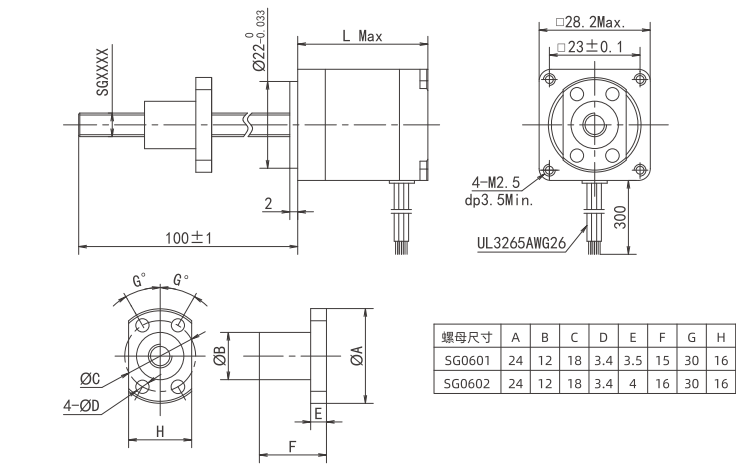
编码 Code	直径(D) Diameter ΦD	导程(P) Step(P)	珠径(Da) Bead diameter(Da)	额定负载 (N) Rated load(N)		螺纹旋向 Thread rotation direction	精度等级 Accuracy level	防锈处理 Rust proof
				动负载 Dynamic load	静负载 Static load			
SG0601	Φ6	1	Φ0.8	560	950	右旋	C7	防锈油
SG0602		2	Φ1.2	750	1200			

*出轴长度可根据客户要求定制 The shaft length can be custom-made

■ 接线图 Wiring Diagram

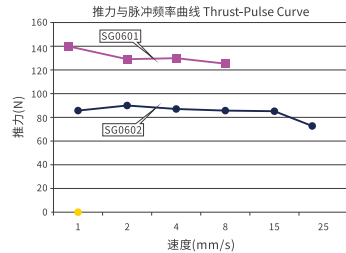
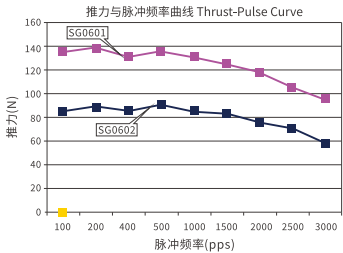


■ 外形图 Dimensions(单位Unit: mm)



■ 动态推力曲线 Dynamic Thrust Curve

驱动方式:整步 Drive Mode:Full Step 编码:SG0601、SG0602 Code:SG0601、SG0602



混合式直线电机 Hybrid Linear Motor

NEMA14 (□35mm) 滚珠丝杆直线步进电机-2相1.8°-14HS 2 Phase



高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	步距角 Step Angle (°)
14HS3418	1.5	1.8	2.0	4	18	34	1.8
14HS45410	1.0	6.0	7.2		23	45	

*以上仅为代表性产品，派生产品可根据客户要求制作，选型时请与我司联系

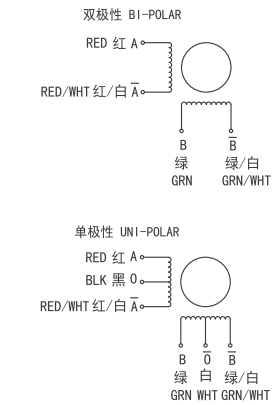
*Note:We can manufacture products according to customer’s requirements,please contact us when you choose the motor type.

■ 丝杆说明 Screw Specification

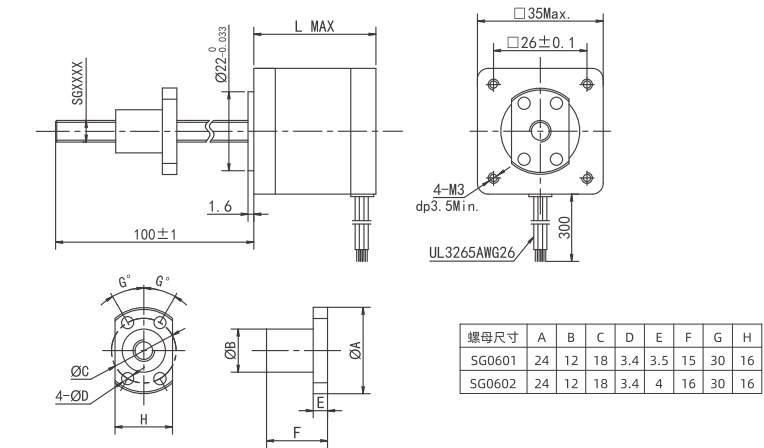
编码 Code	直径(D) Diameter ΦD	导程(P) Step(P)	珠径(Da) Bead diameter(Da)	额定负载 (N) Rated load(N)		螺纹旋向 Thread rotation direction	精度等级 Accuracy level	防锈处理 Rust proof
				动负载 Dynamic load	静负载 Static load			
SG0601	Φ6	1	Φ0.8	560	950	右旋	C7	防锈油
SG0602		2	Φ1.2	750	1200			

*出轴长度可根据客户要求定制 The shaft length can be custom-made

■ 接线图 Wiring Diagram

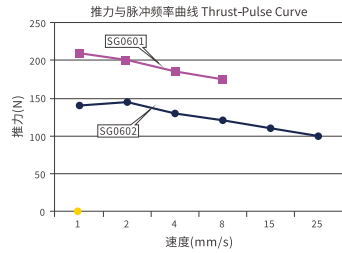
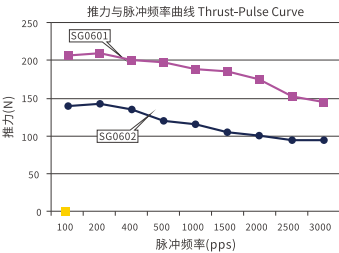


■ 外形图 Dimensions(单位Unit: mm)



■ 动态推力曲线 Dynamic Thrust Curve

驱动方式:整步 Drive Mode:Full Step 编码:SG0601、SG0602 Code:SG0601、SG0602



混合式直线电机 Hybrid Linear Motor

NEMA17 (□42mm)滚珠丝杆直线步进电机-2相1.8°-17HS 2 Phase



高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	步距角 Step Angle (°)
17HS3415	1.5	1.8	2.8	4	28	34	1.8
17HS8403	2.3	1.0	1.8		50	48	

*以上仅为代表性产品, 派生产品可根据客户要求制作, 选型时请与我司联系

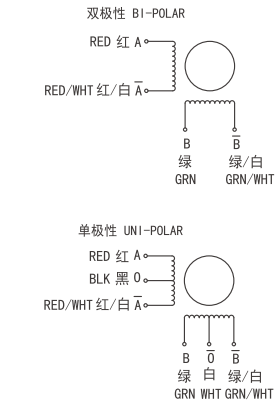
*Note:We can manufacture products according to customer’ s requirements,please contact us when you choose the motor type.

■ 丝杆说明 Screw Specification

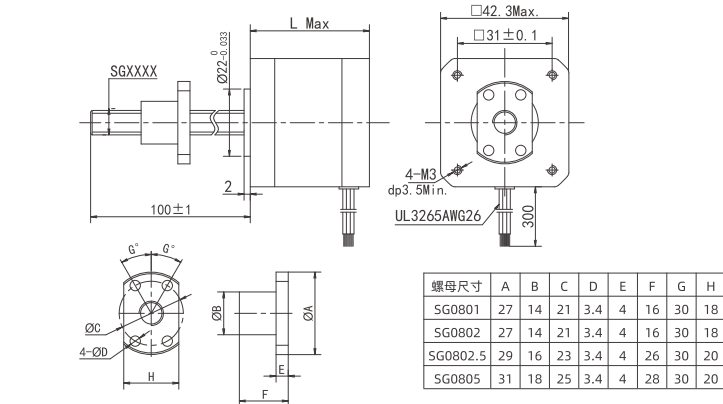
编码 Code	直径(D) Diameter ΦD	导程(P) Step(P)	珠径(Da) Bead diameter(Da)	额定负载 (N) Rated load(N)		螺纹旋向 Thread rotation direction	精度等级 Accuracy level	防锈处理 Rust proof
				动负载 Dynamic load	静负载 Static load			
SG0801	Φ8	1	Φ0.8	650	1300	右旋	C7	防锈油
SG0802		2	Φ1.2	1300	2300			
SG0802.5		2.5	Φ1.2	1345	2694			
SG0805		5	Φ1.5875	1700	3458			

*出轴长度可根据客户要求定制 The shaft length can be custom-made

■ 接线图 Wiring Diagram

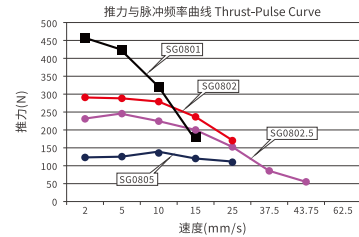
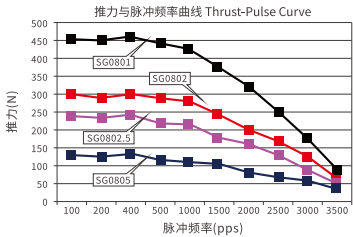


■ 外形图 Dimensions(单位Unit: mm)



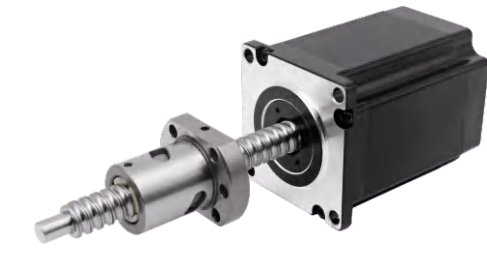
■ 动态推力曲线 Dynamic Thrust Curve

驱动方式:整步 Drive Mode:Full Step 编码:SG0801、SG0802、SG0802.5、SG0805 Code:SG0801、SG0802、SG0802.5、SG0805



混合式直线电机 Hybrid Linear Motor

NEMA23 (□57mm)滚珠丝杆直线步进电机-2相1.8°-23HS 2 Phase



高精度 High Precision
长寿命 Exceptional Endurance
低噪音 Low Noise
高效率 High Efficiency

■ 技术数据 Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	步距角 Step Angle (°)
23HS4425	2.5	1.0	2.2	4	0.8	45	1.8
23HS6430	3.0	0.7	2.4		1.1	56	
23HS8404	4.2	0.55	1.8		1.8	76	

*以上仅为代表性产品, 派生产品可根据客户要求制作, 选型时请与我司联系

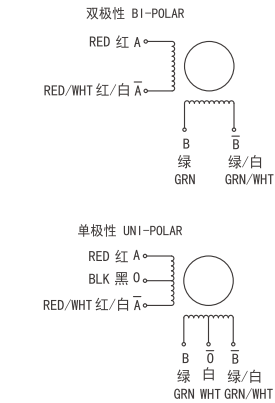
*Note:We can manufacture products according to customer’ s requirements,please contact us when you choose the motor type.

■ 丝杆说明 Screw Specification

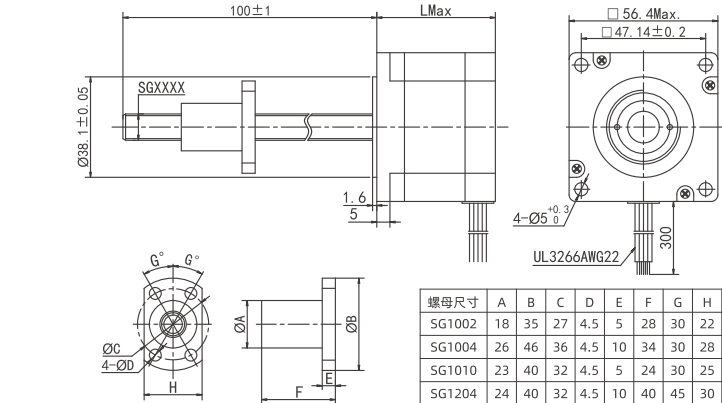
编码 Code	直径 (D) Diameter ΦD	导程(P) Step(P)	珠径(Da) Bead diameter(Da)	额定负载 (N) Rated load(N)		螺纹旋向 Thread rotation direction	精度等级 Accuracy level	防锈处理 Rust proof
				动负载 Dynamic load	静负载 Static load			
SG1002	Φ10	2	Φ1.2	1455	3275	右旋	C7	防锈油
SG1004		4	Φ2.0	2310	5261			
SG1010		10	Φ2.0	3300	5980			
SG1204	Φ12	4	Φ2.5	902	1884			

*出轴长度可根据客户要求定制 The shaft length can be custom-made

■ 接线图 Wiring Diagram

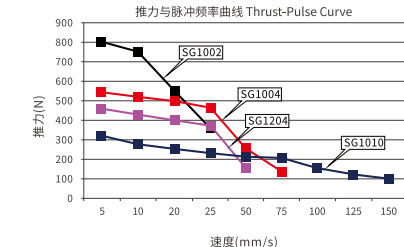
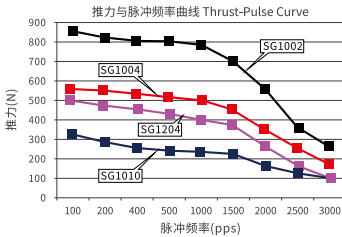


■ 外形图 Dimensions(单位Unit: mm)



■ 动态推力曲线 Dynamic Thrust Curve

驱动方式:整步 Drive Mode:Full Step 编码:SG1002、SG1004、SG1010、SG1204 Code:SG1002、SG1004、SG1010、SG1204



混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

PLANETARY GEARBOX STEPPER MOTOR SERIES

行星减速步进电机系列

04



行星减速步进电机 Planetary Gearbox Stepper Motor

行星减速步进电机具有高精度、高刚性、高负载、高效率、高速比、高寿命、低惯性、低振动、低噪音、低温升、外观美、结构轻小、安装方便、精确定位等特点。

Planetary gearbox stepper motor has the characteristics of high precision, high rigidity, high load, high efficiency, high speed ratio, high life, low inertia, low vibration, low noise, low temperature rise, beautiful appearance, light structure, easy installation, accurate positioning and so on.

混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

SIZE22(○22mm)行星减速步进电机 Planetary Gearbox -22PFSR-8HY Series



体积小 Small size
长寿命 Long life
高精度 High precise
低噪音 Low noise
低成本 Low cost
防护等级 IP44

■ 减速箱技术数据 Technicaldata

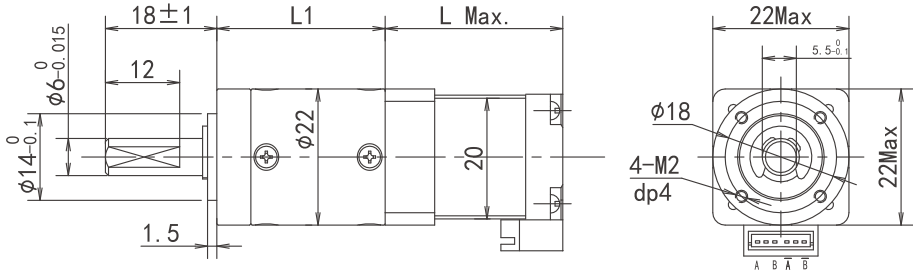
减速比 Gear Ratio		长度L1 Length (mm)	效率 Efficiency	额定转矩 Rated Torque (N.m)	允许最大转矩 Permissible Torque(Max) (N.m)	噪音 Noise (dB)	背隙 Backlash min. at No-load (arcmin)	重量 Weight (g)
1 Stage	3.71	21	90%	0.1	0.3	@1m ≤60	≤60	35
	5.18							
2 Stage	14	27.2	81%	0.4	1.2			44
	19							
	27							
3 Stage	51	33.4	73%	0.8	2.5			53
	71							
	100							
	139							

■ 步进电机技术数据 Stepper Motor Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
8HY2406	0.6	3.7	0.9	4	1.4	31	2.5	50	1.8
8HY3406		4.5	1.5		1.8	37	3.2	70	
8HY4406		5.8	1.8		2.6	43	4.5	82	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



SIZE28(○28mm)行星减速步进电机 Planetary Gearbox -28PSR-11HY Series



体积小 Small size
长寿命 Long life
高精度 High precise
低噪音 Low noise
低成本 Low cost
防护等级 IP44

■ 减速箱技术数据 Technicaldata

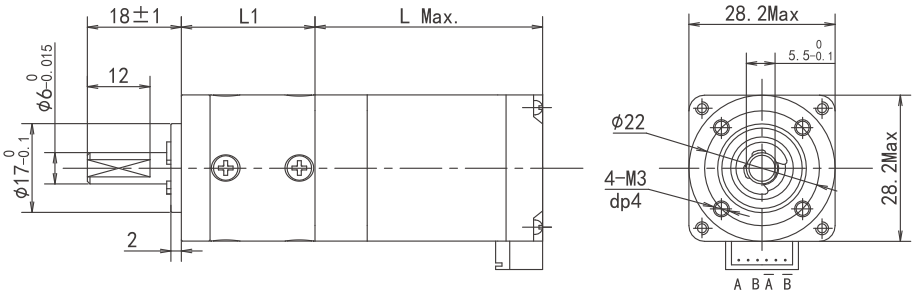
减速比 Gear Ratio		长度L1 Length (mm)	效率 Efficiency	额定转矩 Rated Torque (N.m)	允许最大转矩 Permissible Torque(Max) (N.m)	噪音 Noise (dB)	背隙 Backlash min. at No-load (arcmin)	重量 Weight (g)
1 Stage	3.71	25.6	90%	0.3	1.0	@1m ≤60	≤60	48
	5.18							
	6.75							
2 Stage	14	34	81%	1.2	3.5			55
	19							
	27							
	35							
	46							
3 Stage	51	42	73%	2.5	7.5			64
	71							
	100							
	139							
	181							
	236							
307								

■ 步进电机技术数据 Stepper Motor Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
11HY2401	0.6	4.2	2.2	4	4.5	31	6	105	1.8
11HY3401		5.5	4.2		6.0	36	8	110	
11HY4401		7.0	7.0		8.0	44	11	140	
11HY5401		9.0	8.0		10	53	13	180	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



SIZE32(○32mm)行星减速步进电机 Planetary Gearbox -32PSR-14HS Series



- 体积小 Small size
- 长寿命 Long life
- 高精度 High precise
- 低噪音 Low noise
- 低成本 Low cost
- 防护等级 IP44

■ 减速箱技术数据 Technicaldata

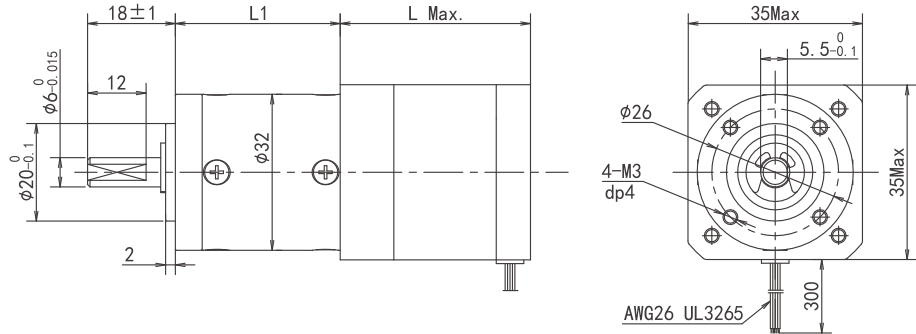
减速比 Gear Ratio		长度L1 Length (mm)	效率 Efficiency	额定转矩 Rated Torque (N.m)	允许最大转矩 Permissible Torque(Max) (N.m)	噪音 Noise (dB)	背隙 Backlash min. at No-load (arcmin)	重量 Weight (g)
1 Stage	3.71	25.6	90%	0.3	1.0	@1m ≤60	≤60	113
	5.18							
	6.75							
2 Stage	14	34	81%	1.2	3.5			145
	19							
	27							
	35							
	46							
3 Stage	51	42	73%	2.5	7.5			184
	71							
	100							
	139							
	181							
	236							
	307							

■ 步进电机技术数据 Stepper Motor Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm²)	重量 Motor Weight (g)	步距角 Step Angle (°)
14HS2402	0.8	4.2	4.5	4	14	31	12	120	1.8
14HS3402	0.8	7.5	9.8		20	39	18	160	
14HS5420	2.0	1.6	2.3		40	58	26	230	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



SIZE36(○36mm)行星减速步进电机 Planetary Gearbox -36PFSR-17HS Series



- 体积小 Small size
- 长寿命 Long life
- 高精度 High precise
- 低噪音 Low noise
- 低成本 Low cost
- 防护等级 IP44

■ 减速箱技术数据 Technicaldata

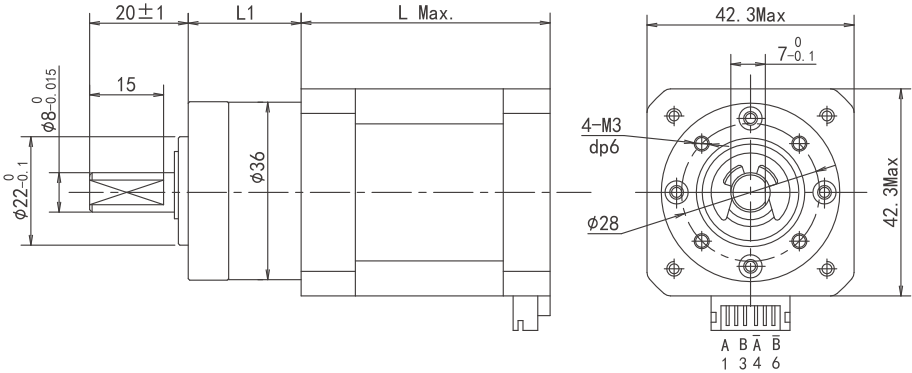
减速比 Gear Ratio		长度L1 Length (mm)	效率 Efficiency	额定转矩 Rated Torque (N.m)	允许最大转矩 Permissible Torque(Max) (N.m)	噪音 Noise (dB)	背隙 Backlash min. at No-load (arcmin)	重量 Weight (g)
1 Stage	3.71	25.6	90%	0.3N.m	1.0N.m	@1m ≤60dB	≤60arcmin	182
	5.18							
	6.75							
2 Stage	14	34	81%	1.2N.m	3.5N.m			191
	19							
	27							
	35							
	46							
3 Stage	51	42	73%	2.5N.m	7.5N.m			230
	71							
	100							
	139							
	181							
	236							
307								

■ 步进电机技术数据 Stepper Motor Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17HS4423	2.3	0.9	1.3	4	40	43	54	280	1.8
17HS8403		1.1	1.5		50	51	68	350	
17HS9403		1.4	2.5		70	63	80	480	
17HS6403		1.5	2.2		80	66	85	500	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



SIZE42(○42mm)行星减速步进电机 Planetary Gearbox -42PSR-17HS Series



体积小 Small size
长寿命 Long life
高精度 High precise
低噪音 Low noise
低成本 Low cost
防护等级 IP44/IP65

■ 减速箱技术数据 Technicaldata

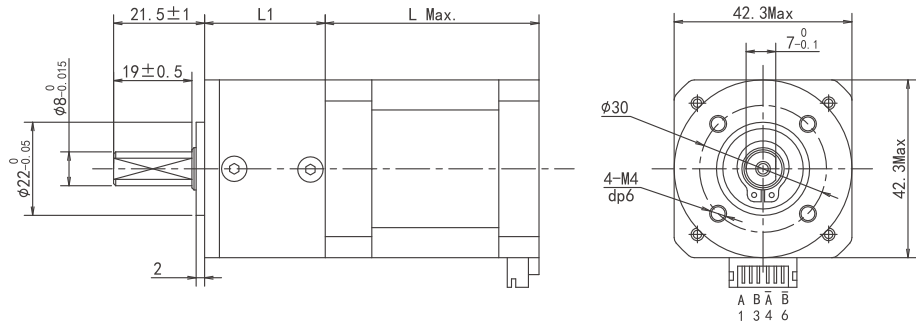
减速比 Gear Ratio		长度L1 Length (mm)	效率 Efficiency	额定转矩 Rated Torque (N.m)	允许最大转矩 Permissible Torque(Max) (N.m)	噪音 Noise (dB)	背隙 Backlash min. at No-load (arcmin)	重量 Weight (g)
1 Stage	5	28.5	90%	6	12	@1m ≤60	≤60	140-230
	10							
2 Stage	20	38	81%	12	22			180-280
	25							
	35							
	40							
	45							
	50							
	100							

■ 步进电机技术数据 Stepper Motor Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (g)	步距角 Step Angle (°)
17HS4423	2.3	0.9	1.3	4	40	43	54	280	1.8
17HS8403		1.1	1.5		50	51	68	350	
17HS9403		1.4	2.5		70	63	80	480	
17HS6403		1.5	2.2		80	66	85	500	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



SIZE57(□57mm)行星减速步进电机 Planetary Gearbox -57PGF-23HS Series



体积小 Small size
长寿命 Long life
高精度 High precise
低噪音 Low noise
低成本 Low cost
防护等级 IP44/IP65

■ 减速箱技术数据 Technicaldata

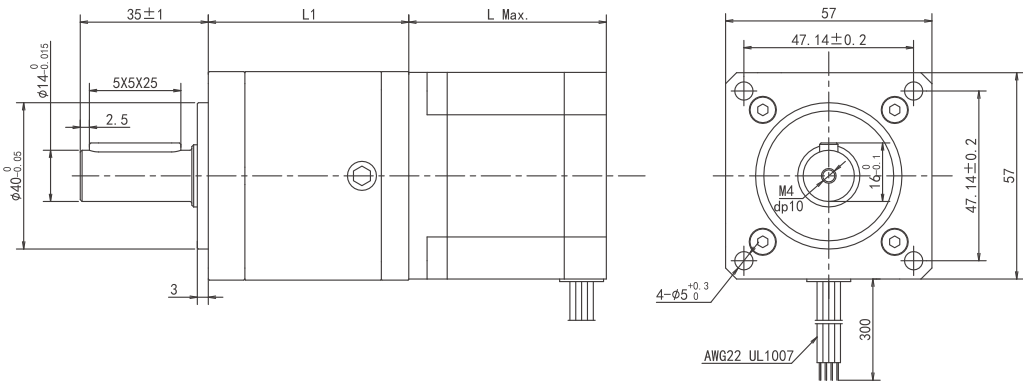
减速比 Gear Ratio		长度L1 Length (mm)	效率 Efficiency	额定转矩 Rated Torque (N.m)	允许最大转矩 Permissible Torque(Max) (N.m)	噪音 Noise (dB)	背隙 Backlash min. at No-load (arcmin)	重量 Weight (g)
1 Stage	5	55	95%	25	40	@1m ≤60	≤15	600-800
	10							
2 Stage	15	71	90%	40	60		≤25	800-960
	20							
	25							
	30							
	40							
	50							

■ 步进电机技术数据 Stepper Motor Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
23HS6404	4.2	0.35	1.2	4	1.1	56	280	0.68	1.8
23HS8404		0.55	1.8		1.8	76	440	1.05	
23HS1404		0.75	3.0		2.5	100	680	1.25	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



SIZE60(○60mm)行星减速步进电机 Planetary Gearbox -60PGR-24HS Series



体积小 Small size
长寿命 Long life
高精度 High precise
低噪音 Low noise
低成本 Low cost
防护等级 IP44/IP65

■ 减速箱技术数据 Technicaldata

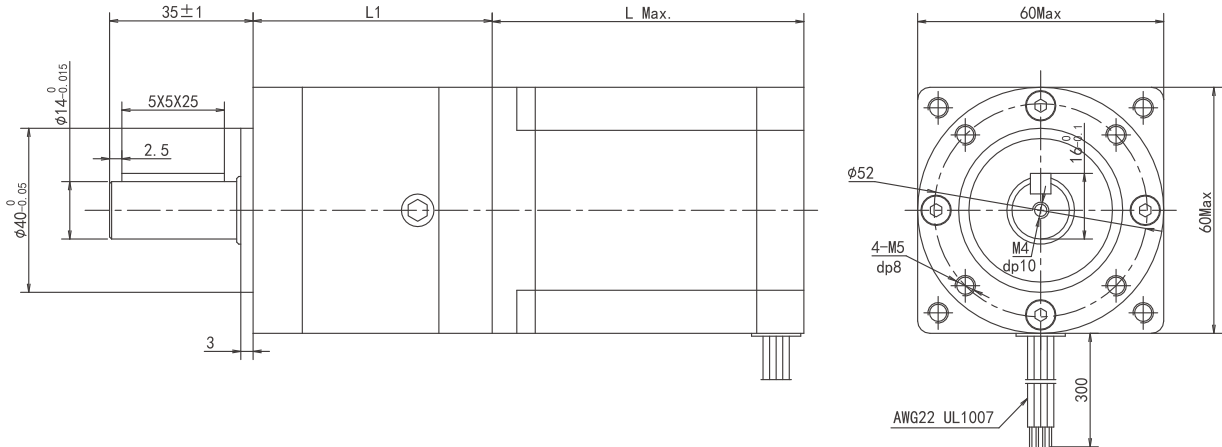
减速比 Gear Ratio		长度L1 Length (mm)	效率 Efficiency	额定转矩 Rated Torque (N.m)	允许最大转矩 Permissible Torque(Max) (N.m)	噪音 Noise (dB)	背隙 Backlash min. at No-load (arcmin)	重量 Weight (g)
1 Stage	5	58	95%	25	45	@1m ≤60	≤15	600-800
	10							
2 Stage	15	75	90%	40	60		≤25	800-960
	20							
	25							
	30							
	40							
	50							

■ 步进电机技术数据 Stepper Motor Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm²)	重量 Motor Weight (kg)	步距角 Step Angle (°)
24HS6442	4.2	0.45	1.3	4	1.5	56	350	0.7	1.8
24HS8442		0.6	2.0		2.2	76	550	1.15	
24HS1404		0.75	3.3		2.8	90	780	1.4	
24HS2404		0.9	3.5		3.2	100	850	1.55	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



SIZE86(□86)行星减速步进电机 Planetary Gearbox -86PGF-34HS Series



体积小 Small size
长寿命 Long life
高精度 High precise
低噪音 Low noise
低成本 Low cost
防护等级 IP44/IP65

■ 减速箱技术数据 Technicaldata

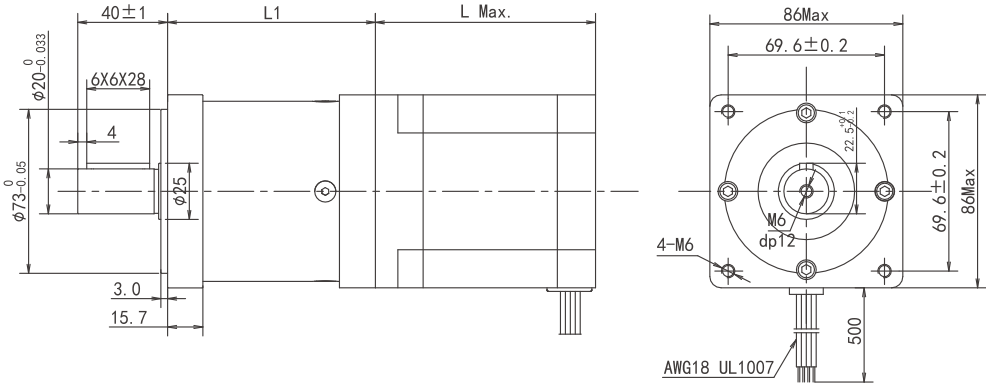
减速比 Gear Ratio		长度L1 Length (mm)	效率 Efficiency	额定转矩 Rated Torque (N.m)	允许最大转矩 Permissible Torque(Max) (N.m)	噪音 Noise (dB)	背隙 Backlash min. at No-load (arcmin)	重量 Weight (g)
1 Stage	5	74	95%	50	100	@1m ≤60	≤15	3000
	10							
2 Stage	15	93	90%	80	160		≤25	4000
	20							
	25							
	30							
	40							
	50							

■ 步进电机技术数据 Stepper Motor Electrical Specifications

型号 Series Model	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	引线数 Lead Wire (No.)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm²)	重量 Motor Weight (Kg)	步距角 Step Angle (°)
34HS6402	7.0	0.16	0.9	4	3.0	66	0.85	2.0	1.8
34HS8402		0.2	1.6		4.5	78	1.05	2.5	
34HS4402		0.33	3.2		8.5	114	1.8	3.5	
34HS5402		0.4	4.8		12	150	2.5	4.2	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

INTEGRATED
DRIVE SERIES

步进伺服一体机系列

05



步进伺服一体机

Integrated Drive

步进伺服一体机是伺服驱动与步进电机，编码器等多个单元集成在一起的完美结合;它完美融合了步进电机和驱动技术于一体，不仅可以节约安装空间，同时把接线化繁为简，为您节省设计成本和生产成本。

Integrated Drive all-in-one machine is a perfect combination of servo drive, stepper motor, encoder and other units; it perfectly integrates stepper motor and drive technology, which can not only save installation space, but also simplify wiring at the same time. Save design costs and production costs for you.

混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

NEMA11(□28mm)2相1.8°- Integrated Drive Series



步进一体机是驱动与步进电机的完美结合;它完美融合了步进电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closed-loop control

Customizable drive function

Customizable motor parameters

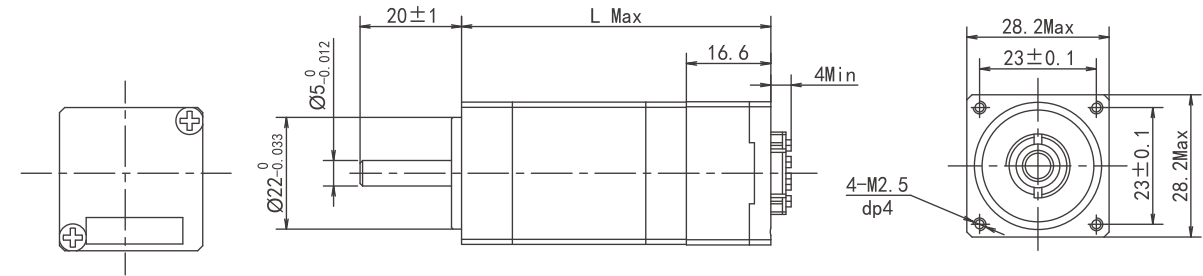
Customizable screw

■ 技术数据 Electrical Specifications

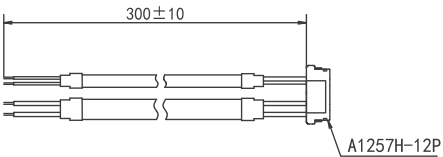
型号 Series Model	电压 Input Voltage (V)	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	步距角 Step Angle (°)
11HDM4413-TBXXX	24V	1.3	2.1	1.5	16	61	13	1.8
11HDM8413-TBXXX	24V	1.3	2.8	2.0	20	73	15	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



(控制接口定义)

A1257H-12P	线规型号
1 红 VCC +24VDC	AWG26 UL3265
2 黑 GND-	
3 黄 PUL+	K/VVO 0.15*7P
4 黄/黑 PUL-	
5 橙 DIR+	
6 橙/黑 DIR-	

A1257H-12P	线规型号
7 绿 ENA+	K/VVO 0.15*7P
8 绿/黑 ENA-	
9 白 ALM+	
10 白/黑 ALM-	
11 棕 RS485A	
12 棕/黑 RS485B	

NEMA17(□42mm)2相1.8°- Integrated Drive Series



步进一体机是驱动与步进电机的完美结合;它完美融合了步进电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closed-loop control

Customizable drive function

Customizable motor parameters

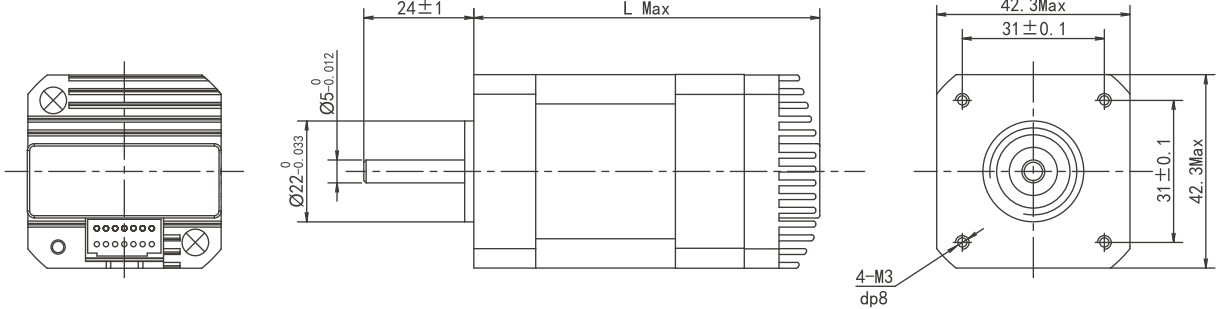
Customizable screw

■ 技术数据 Electrical Specifications

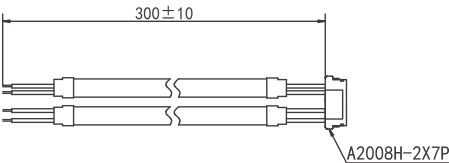
型号 Series Model	电压 Input Voltage (V)	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	步距角 Step Angle (°)
17HSM3401-TBXXX	24	1.3	2.4	3.5	28	61	34	1.8
17HSM4401-TBXXX	24	1.7	1.5	2.8	40	67	54	
17HSM8403-TBXXX	24	2.3	1.2	1.6	50	76	68	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



(控制接口定义)

A2008H-2X7P	线规型号
1 红 VCC +24VDC	AWG22 UL1430
2 黑 GND-	
3 黄 PUL+	K/VVO 0.15*7P
4 黄/黑 PUL-	
5 橙 DIR+	
6 橙/黑 DIR-	
7 绿 ENA+	

A2008H-2X7P	线规型号
8 绿/黑 ENA-	K/VVO 0.15*7P
9 白 ALM+	
10 白/黑 ALM-	
11 灰 AIN_5V	
12 灰/黑 AIN_10V	
13 棕 RS485B	
14 棕/黑 RS485A	

NEMA23(□57mm)2相1.8°- Integrated Drive Series



步进一体机是驱动与步进电机的完美结合;它完美融合了步进电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closed-loop control

Customizable drive function

Customizable motor parameters

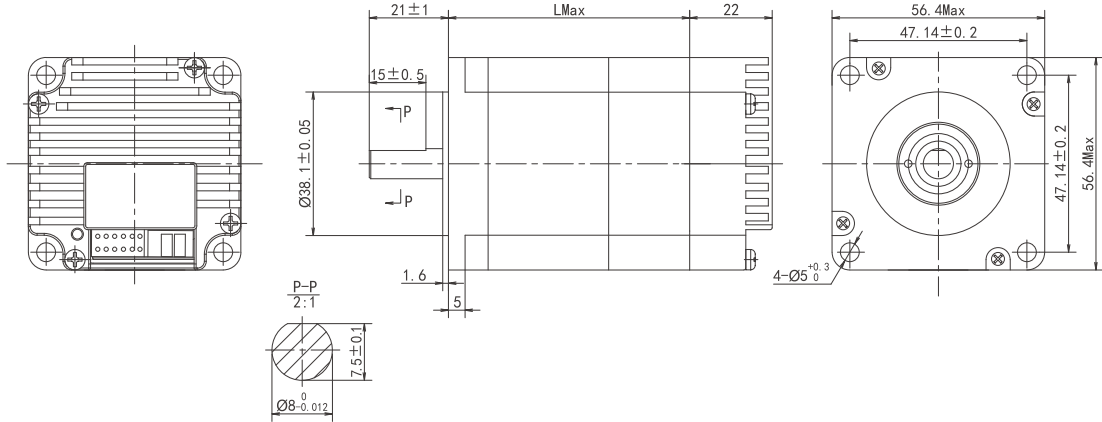
Customizable screw

■ 技术数据 Electrical Specifications

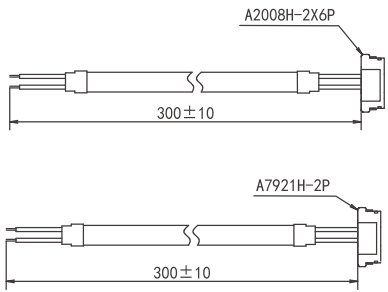
型号 Series Model	电压 Input Voltage (V)	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	静力矩 Holding Torque (N.m)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (Kg.cm ²)	步距角 Step Angle (°)
23HSM6404-TBXXX	24~48	4.2	1.2	7.2	1.1	65	0.28	1.8
23HSM80404-TBXXX	24~48	4.2	0.7	2.0	2.0	90	0.48	
23HSM1460-TBXXX	24~48	6.0	0.35	1.5	2.5	110	0.68	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



No.	A7921H-2P	AWG22UL3266
1	VCC+24VDC	红 RED
2	GND -	黑 BLK

(控制接口定义)

No.	A2008H-2X6P	K/VVO 0.15*7P
1	PUL+	黄 YEL
2	PUL-	黄/黑 YEL/BLK
3	DIR+	橙 ORG
4	DIR-	橙/黑 ORG/BLK
5	ENA+	绿 GRN
6	ENA-	绿/黑 GRN/BLK
7	ALM+	白 WHT
8	ALM-	白/黑 WHT/BLK
9	AIN_5V	灰 GRY
10	AIN_10V	灰/黑 GRY/BLK
11	RS485A	棕 BRN
12	RS485B	棕/黑 BRN/BLK

NEMA34(□86mm)2相1.8°- Integrated Drive Series



步进一体机是驱动与步进电机的完美结合;它完美融合了步进电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closed-loop control

Customizable drive function

Customizable motor parameters

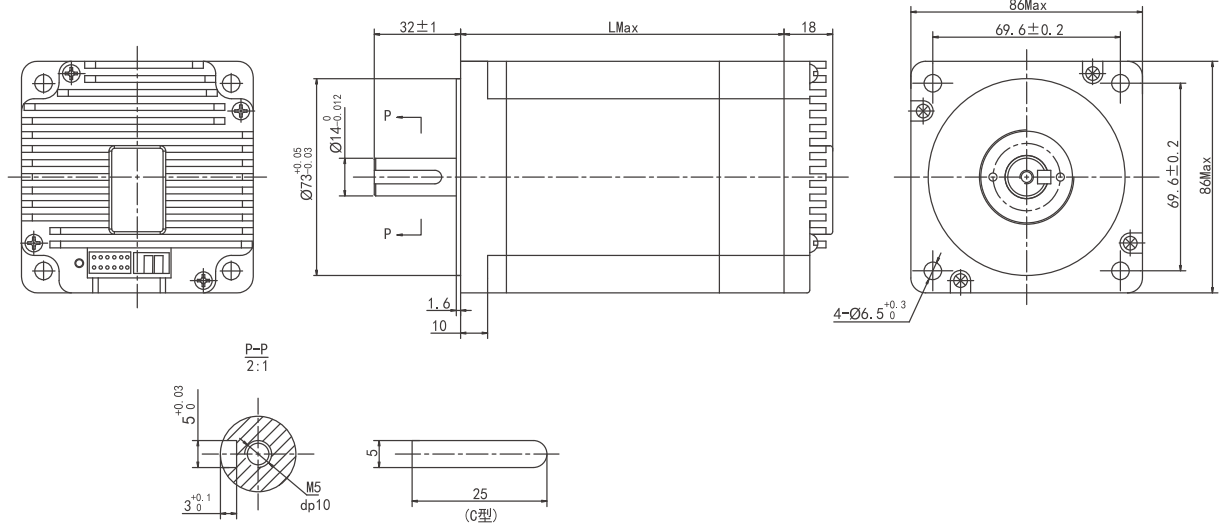
Customizable screw

■ 技术数据 Electrical Specifications

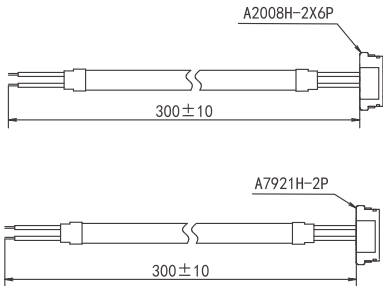
型号 Series Model	电压 Input Voltage (V)	电流 Rated Current (A)	电阻 Phase Resistance (Ω)	电感 Phase Inductance (mH)	静力矩 Holding Torque (N.cm)	机身長L Motor Length L (mm)	转动惯量 Rotor Inertia (g.cm ²)	步距角 Step Angle (°)
34HSM8402-TBXXX	24~48	7.0	0.2	1.8	4.2	85	1050	1.8
34HSM4402-TBXXX	24~48	7.0	0.35	3.2	8.2	121	1800	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



No.	A7921H-2P	AWG20UL3266
1	VCC+24VDC	红 RED
2	GND -	黑 BLK

(控制接口定义)

No.	A2008H-2X6P	K/VVO 0.15*7P
1	PUL+	黄 YEL
2	PUL-	黄/黑 YEL/BLK
3	DIR+	橙 ORG
4	DIR-	橙/黑 ORG/BLK
5	ENA+	绿 GRN
6	ENA-	绿/黑 GRN/BLK
7	ALM+	白 WHT
8	ALM-	白/黑 WHT/BLK
9	AIN_5V	灰 GRY
10	AIN_10V	灰/黑 GRY/BLK
11	RS485A	棕 BRN
12	RS485B	棕/黑 BRN/BLK

CONFIGURATIONS AND OPTIONS

配置和选项

Besides all standard motors above,we also provide all kinds of customized motors per request.

Shaft Mode Configuration(出轴方式配置)



齿轮 Gear



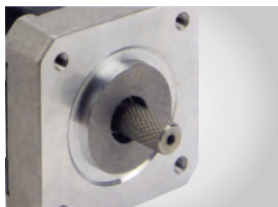
带轮 Strap Wheel



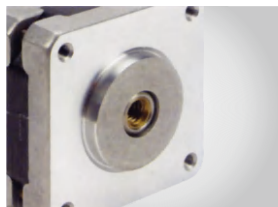
塑料带轮 Plastic Strap Wheel



滚齿 Gear Shaft



滚花 Flover Pattern Shaft



空心轴 Through Hole Shaft



键槽 Key Way Shaft



单扁 Single Plane Shaft

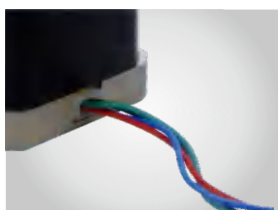


垂直扁 Plumb Plane Shaft



螺杆 Screw Thread Shaft

Connection Configuration(接线方式配置)



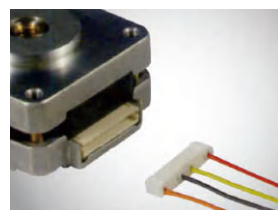
引线



引线带接插件



17HS 公端:JST S6B-PH-K
母端:JST PHR-6



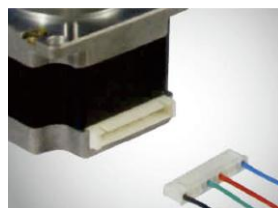
14HY/16HY 公端:JST S11B-ER
母端:JST ZHR-11



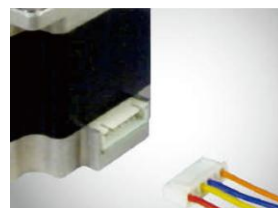
17HS 公端:Molex 89401-1160
母端:Molex 87369-1100



23HY 公端:JST S6B-FH
母端:JST PHR-6



23HS 公端:JST S11B-XH-A-1
母端:JST-XHP-11



23HS 公端:JST S6B-XH-A-1
母端:JST-XHP-6

IP65 Series/High Protection Level



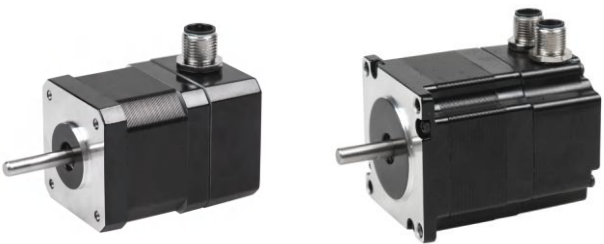
- NEMA14 IP65 Series
- NEMA17 IP65 Series
- NEMA23 IP65 Series
- NEMA24 IP65 Series
- NEMA34 IP65 Series
- NEMA43 IP65 Series

刹车配置 Brake For Motor Option



- NEMA14 + Brake 0.25N.m Series
- NEMA17 + Brake 0.5N.m Series
- NEMA23 + Brake 1.5/2N.m Series
- NEMA24 + Brake 1.5/2N.m Series
- NEMA34 + Brake 4/8N.m Series
- NEMA43 + Brake 8N.m Series

航插配置 The Aviation Plug Of Motor Option



HYSTERESIS BRAKE SERIES

磁滞制动器系列

06

磁滞制动器 Hysteresis brake

SIZE46 (○46mm) 圆形Circular磁滞制动器 Hysteresis brake-HB Series



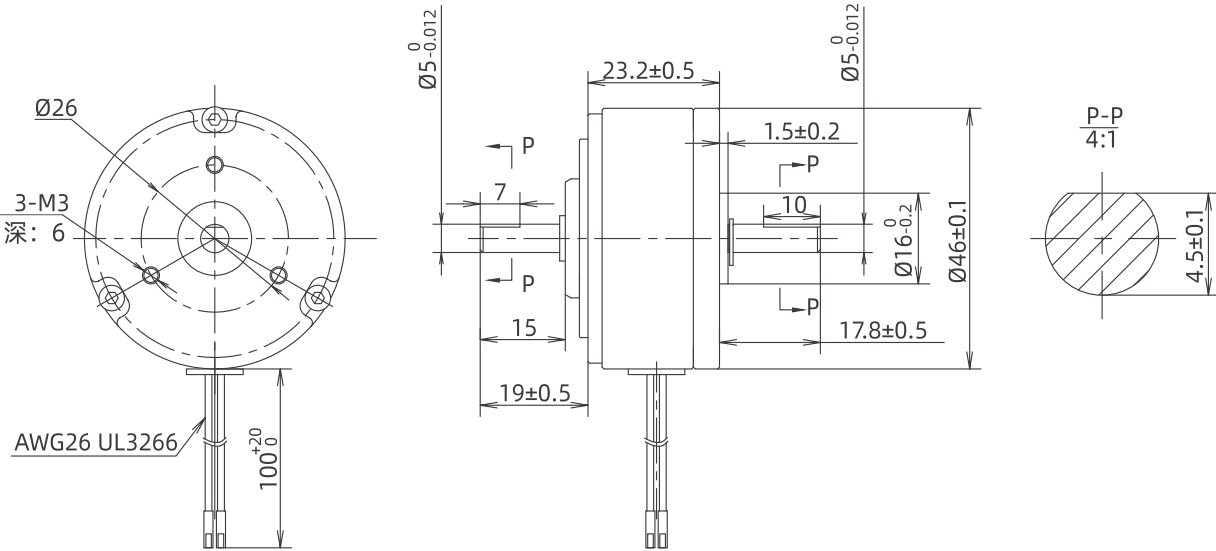
用于精确的扭力,张力以及停止定位等的开环与闭环控制,如电机制造行业绕线机铜线的张力控制,电缆变压器、纺织等行业的张力控制以及机床、智能自动化设备的精准定位控制。

■ 技术数据 Electrical Specifications

型号 Series Model	额定扭矩 Minimum torque (N.cm)	电流 Rated Current (A)	电压 Voltage (VDC)	电阻 Resistance (Ω)	重量 Motor Weight (Kg)	额定滑差功率-持续 Kinetic power- continuous (W)	转动惯量 Rotor Inertia (g.cm ²)	最高转速 Max speed (RPM)
HB010	10	0.27	24	88	0.26	10	12	20000

*以上仅为代表性产品,派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

DC BRUSHLESS MOTOR SERIES

直流无刷电机系列

07



直流无刷电机 DC Brushless Motor

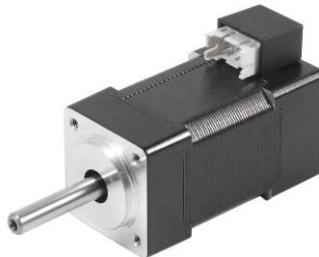
直流无刷电机由电动机主体和驱动器组成，是一种典型的机电一体化产品。电动机的定子绕组多做成三相对称星形接法，同三相异步电动机十分相似。电动机的转子上粘有已充磁的永磁体，为了检测电动机转子的极性，在电动机内装有位置传感器。驱动器由功率电子器件和集成电路等构成，其功能是：接受电动机的启动、停止、制动信号，以控制电动机的启动、停止和制动；接受位置传感器信号和正反转信号，用来控制逆变桥各功率管的通断，产生连续转矩；接受速度指令和速度反馈信号，用来控制和调整转速；提供保护和显示等等。

Brushless DC motor is composed of motor body and driver, which is a typical mechatronics product. The stator windings of the motor are mostly made of three - phase symmetric star connection, which is very similar to three - phase asynchronous motor. A magnetized permanent magnet is attached to the rotor of the motor. In order to detect the polarity of the rotor, a position sensor is installed in the motor. The driver is composed of power electronic devices and integrated circuits, etc. Its functions are: to accept the start, stop and brake signals of the motor to control the start, stop and brake of the motor; It receives position sensor signals and positive and negative rotation signals, which are used to control on and off of each power tube of the inverter bridge and generate continuous torque. Accept speed instruction and speed feedback signal, used to control and adjust the speed; Provide protection, display, and so on.

混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

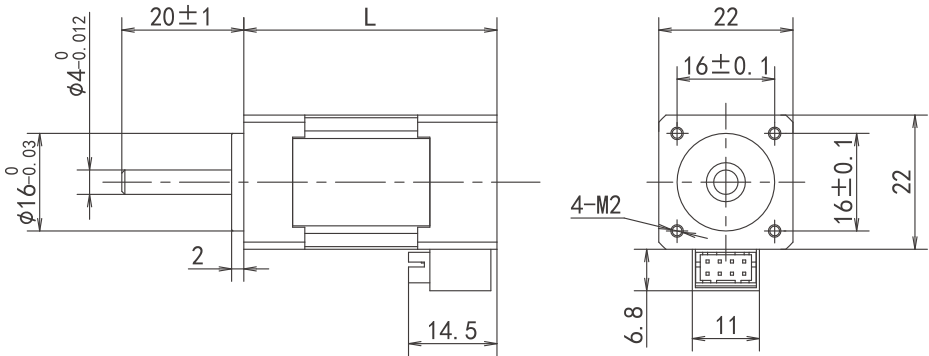
NEMA9 (□22mm)方形 Square BLDC - 9WLSE Series

■ 技术数据 Electrical Specifications

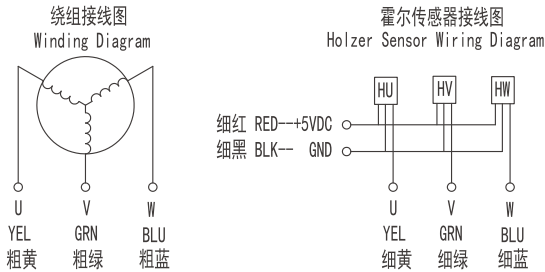
电机型号 Motor Model	9WLSE240440			9WLSE240840	9WLSE241240	产品 Product
相数 Number of Phase	3					
极数 Number of Poles	8					
额定电压 Rated Voltage(VDC)	24					
额定转速 Rated Speed(Rpm)	4000					
额定转矩 Rated Torque(N.m)	0.01	0.02	0.03			
额定功率 Rated Power(W)	4	8	12			
额定电流 Rated Current(A)	0.2	0.4	0.6			
峰值电流 Peak Current(A)	0.6	1.2	1.8			
峰值转矩 Peak Torque(N.m)	0.03	0.06	0.09			
转子惯量 Rotor Inertia(kg.cm²)	0.01	0.02	0.03			
转矩常数 Torque Constant(N.m/A)	0.05	0.05	0.05			
反电势常数 Torque Constant(V/krpm)	4.5	4.5	4.5			
线间电阻 Line-Line Resistance(Ω)	2.1	3.2	3.9			
线间电感 Line-Line Inductance(mH)	1.1	1.3	1.5			
机身长度 Length(mm)	31.5	41.5	51.5			
电机重量 Weight(kg)	0.2	0.3	0.4			

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



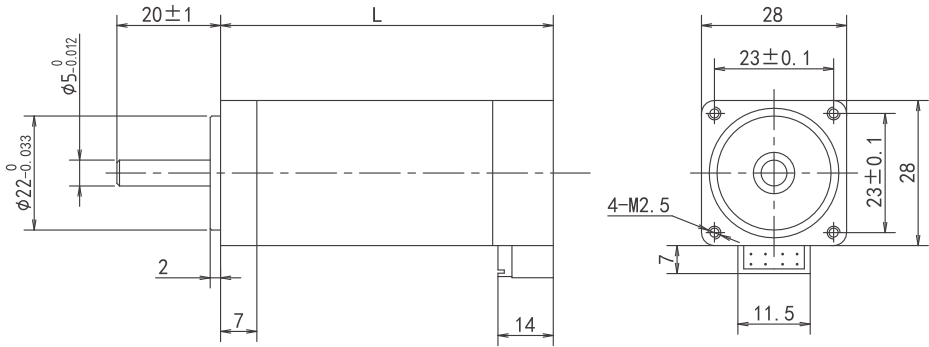
NEMA11 (□28mm)方形 Square BLDC - 11WLSE Series

■ 技术数据 Electrical Specifications

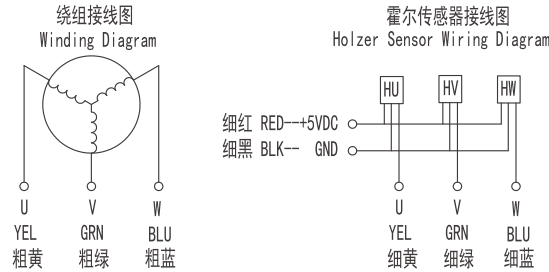
电机型号 Motor Model	11WLSE241240		11WLSE241840	11WLSE242540	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	4000				
额定转矩 Rated Torque(N.m)	0.03	0.045	0.06		
额定功率 Rated Power(W)	12.5	18.8	25		
额定电流 Rated Current(A)	0.7	0.9	1.3		
峰值电流 Peak Current(A)	2.1	2.7	3.9		
峰值转矩 Peak Torque(N.m)	0.09	0.13	0.18		
转子惯量 Rotor Inertia(kg.cm²)	0.01	0.02	0.03		
转矩常数 Torque Constant(N.m/A)	0.04	0.04	0.04		
反电势常数 Torque Constant(V/krpm)	4.48	5.23	4.18		
线间电阻 Line-Line Resistance(Ω)	1.9	2.5	3.4		
线间电感 Line-Line Inductance(mH)	0.9	1.1	1.3		
机身长度 Length(mm)	46	56	66		
电机重量 Weight(kg)	0.22	0.38	0.55		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)

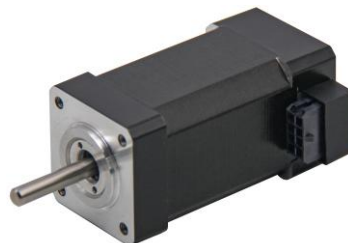


■ 接线图 Wiring Diagram



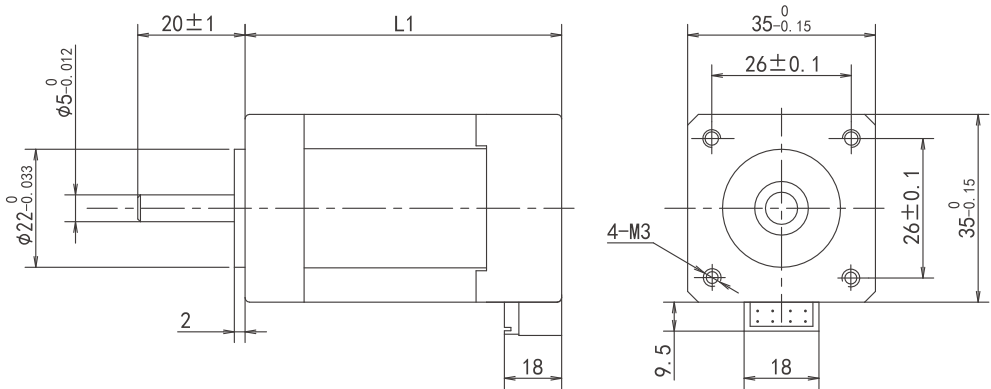
NEMA14 (□35mm)方形 Square BLDC - 14WLSE Series

■ 技术数据 Electrical Specifications

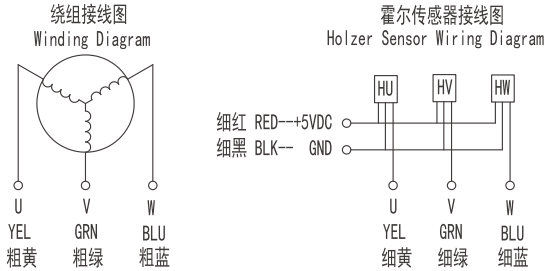
电机型号 Motor Model	14WLSE241640		14WLSE242540	14WLSE243340	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	4000				
额定转矩 Rated Torque(N.m)	0.04	0.06	0.08		
额定功率 Rated Power(W)	16.7	25	33.5		
额定电流 Rated Current(A)	0.8	1.25	1.7		
峰值电流 Peak Current(A)	2.4	3.75	5.2		
峰值转矩 Peak Torque(N.m)	0.12	0.18	0.24		
转子惯量 Rotor Inertia(kg.cm²)	0.02	0.02	0.03		
转矩常数 Torque Constant(N.m/A)	0.05	0.05	0.05		
反电势常数 Torque Constant(V/krpm)	4.5	4.6	4.5		
线间电阻 Line-Line Resistance(Ω)	2.5	3.1	3.4		
线间电感 Line-Line Inductance(mH)	1.1	1.2	1.3		
机身长度 Length(mm)	49	59	69		
电机重量 Weight(kg)	0.34	0.5	0.66		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



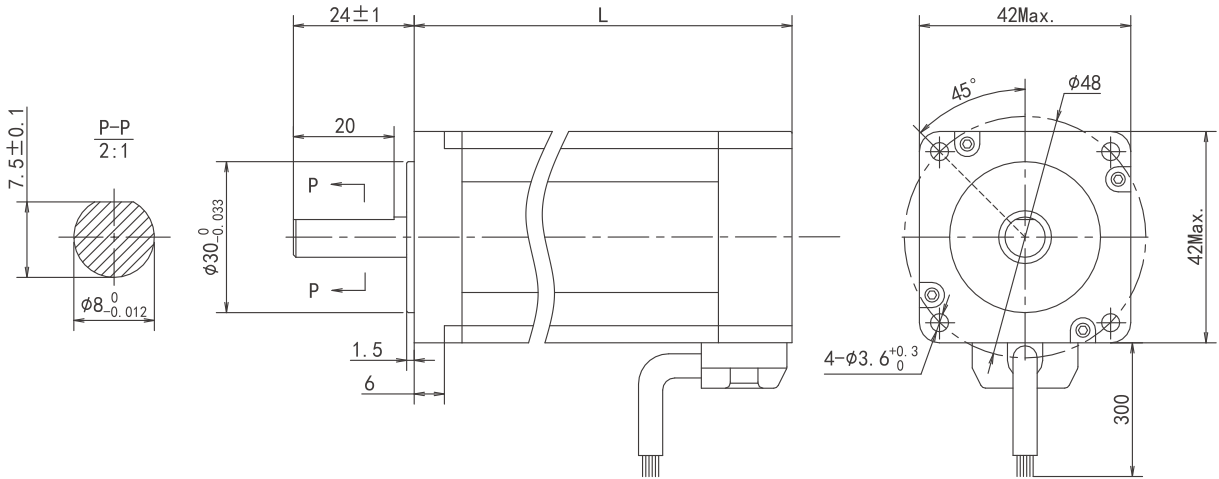
NEMA17 (□42mm) 方形 Square BLDC - 17WSTE Series

■ 技术数据 Electrical Specifications

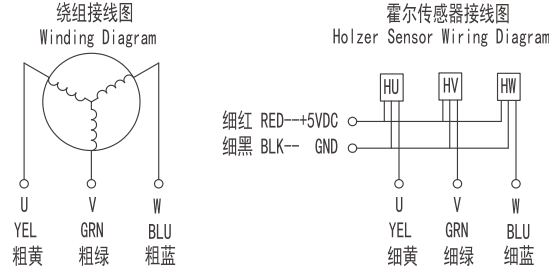
电机型号 Motor Model	17WSTE483030		17WSTE486030	17WSTE489030	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.1	0.2	0.3		
额定功率 Rated Power(W)	31	63	94		
额定电流 Rated Current(A)	0.87	1.74	2.61		
峰值电流 Peak Current(A)	2.6	5.2	7.8		
峰值转矩 Peak Torque(N.m)	0.3	0.6	0.9		
转子惯量 Rotor Inertia(kg.cm²)	0.039	0.045	0.052		
转矩常数 Torque Constant(N.m/A)	0.115	0.115	0.115		
反电势常数 Torque Constant(V/krpm)	12	12	12		
线间电阻 Line-Line Resistance(Ω)	1.9	1.4	0.8		
线间电感 Line-Line Inductance(mH)	1.5	1.1	0.6		
机身长度 Length(mm)	47	67	87		
电机重量 Weight(kg)	0.4	0.9	1.0		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



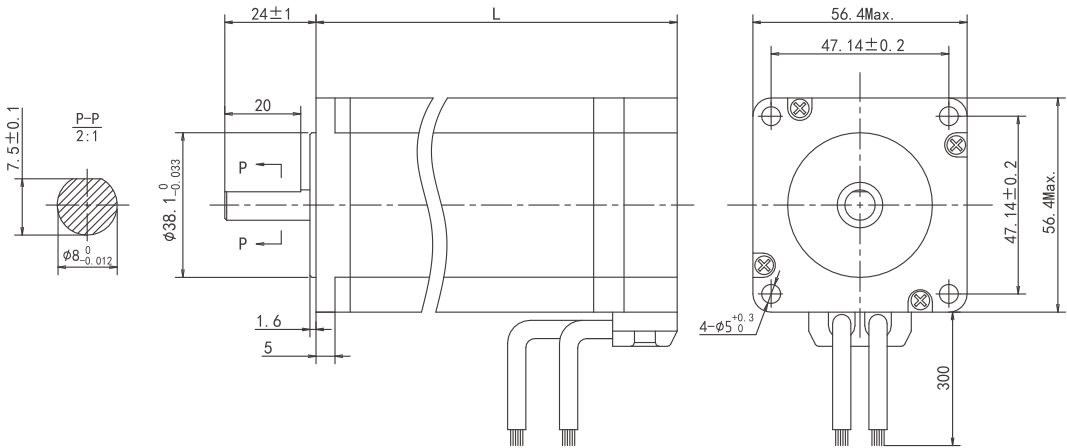
NEMA23 (□57mm) 方形 Square BLDC - 23WSTE Series

■ 技术数据 Electrical Specifications

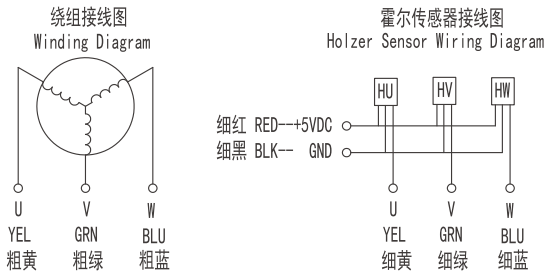
电机型号 Motor Model	23WSTE486030	23WSTE481230	23WSTE481830	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.2	0.4	0.6	
额定功率 Rated Power(W)	63	125	188	
额定电流 Rated Current(A)	1.6	3.3	5.0	
峰值电流 Peak Current(A)	4.8	9.9	15.0	
峰值转矩 Peak Torque(N.m)	0.6	1.2	1.8	
转子惯量 Rotor Inertia(kg.cm²)	0.25	0.35	0.45	
转矩常数 Torque Constant(N.m/A)	0.125	0.121	0.12	
反电势常数 Torque Constant(V/krpm)	13.08	12.71	12.56	
线间电阻 Line-Line Resistance(Ω)	1.11	0.93	0.52	
线间电感 Line-Line Inductance(mH)	0.91	0.65	0.43	
机身长度 Length(mm)	58	78	98	
电机重量 Weight(kg)	1.0	1.4	1.8	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



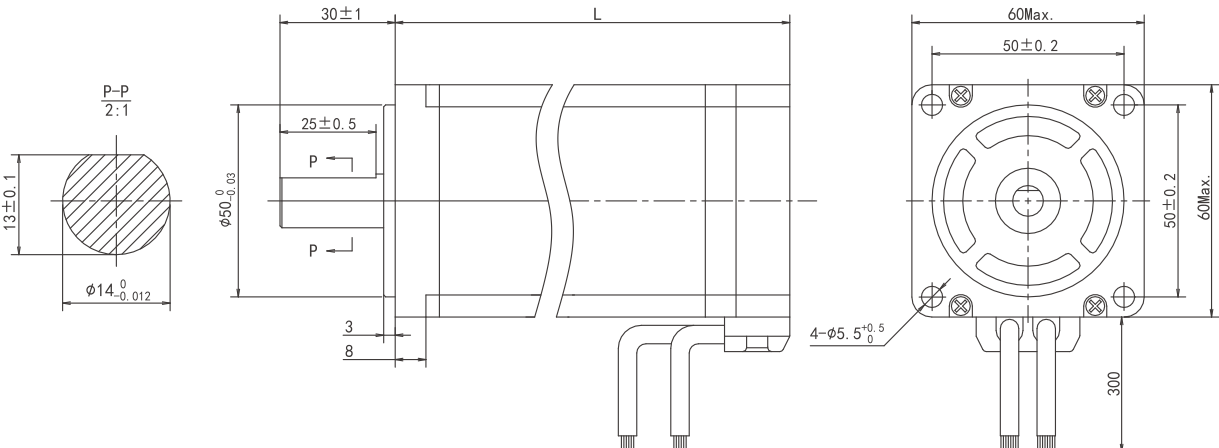
NEMA24 (□60mm) 方形 Square BLDC - 24WSTE Series

■ 技术数据 Electrical Specifications

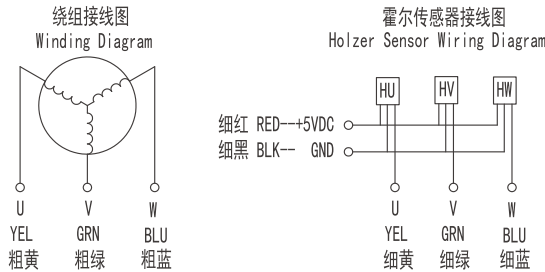
电机型号 Motor Model	24WSTE487830		24WSTE481530	24WSTE482330	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.25	0.5	0.75		
额定功率 Rated Power(W)	78	156	234		
额定电流 Rated Current(A)	2.2	4.4	6.6		
峰值电流 Peak Current(A)	6.6	13.2	19.8		
峰值转矩 Peak Torque(N.m)	0.75	1.5	2.25		
转子惯量 Rotor Inertia(kg.cm²)	0.5	0.9	1.3		
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.11		
反电势常数 Torque Constant(V/krpm)	10.5	10.5	10.5		
线间电阻 Line-Line Resistance(Ω)	1.5	0.6	0.5		
线间电感 Line-Line Inductance(mH)	1.3	0.65	0.4		
机身长度 Length(mm)	66	87	108		
电机重量 Weight(kg)	0.9	1.25	1.6		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



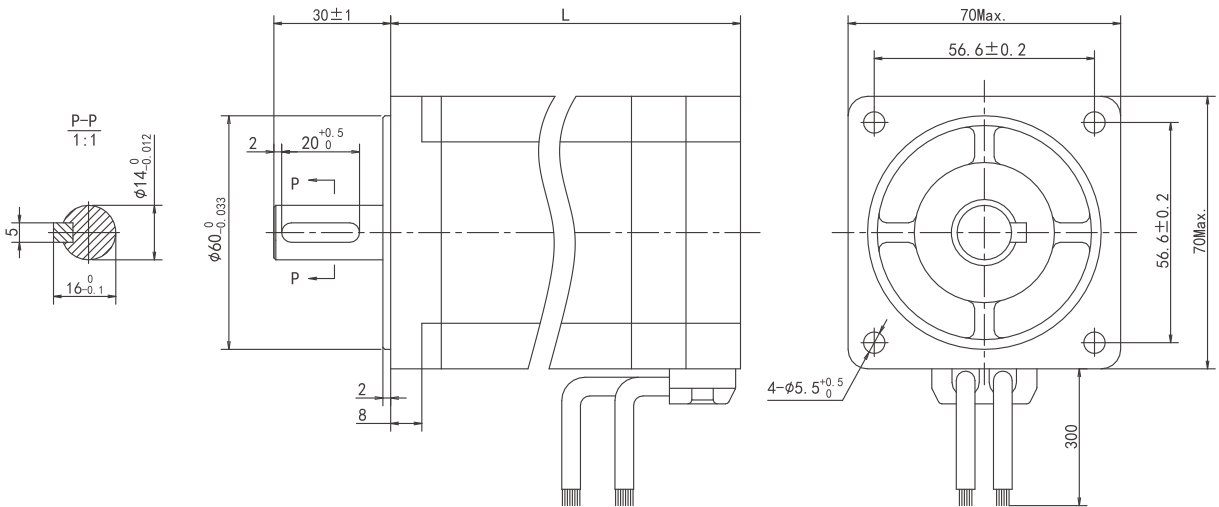
NEMA28 (□70mm) 方形 Square BLDC - 28BSTE Series

■ 技术数据 Electrical Specifications

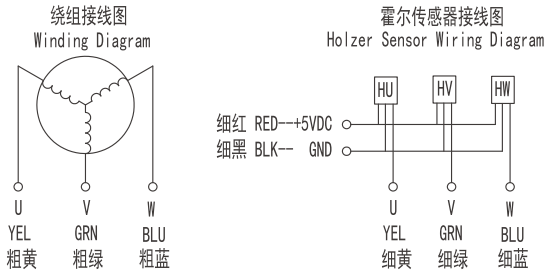
电机型号 Motor Model	28BSTE481530		28BSTE482130	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.5	0.67		
额定功率 Rated Power(W)	157	210		
额定电流 Rated Current(A)	4.1	5.8		
峰值电流 Peak Current(A)	12.3	17.4		
峰值转矩 Peak Torque(N.m)	1.5	2.01		
转子惯量 Rotor Inertia(kg.cm²)	0.86	0.92		
转矩常数 Torque Constant(N.m/A)	0.122	0.115		
反电势常数 Torque Constant(V/krpm)	12.76	11.2		
线间电阻 Line-Line Resistance(Ω)	0.93	0.8		
线间电感 Line-Line Inductance(mH)	0.85	0.7		
机身长度 Length(mm)	88	98		
电机重量 Weight(kg)	1.34	1.5		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



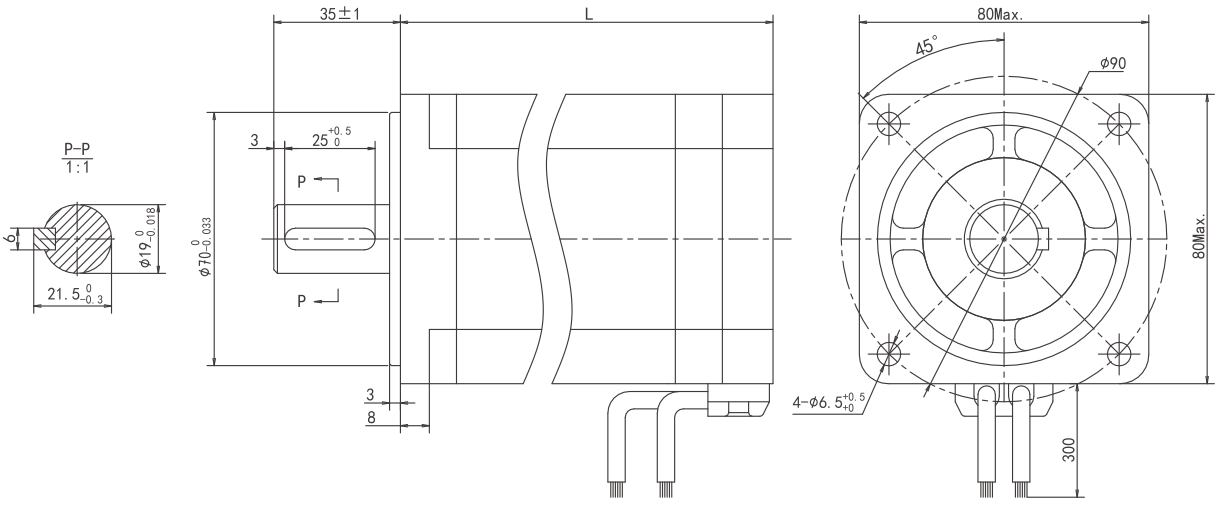
NEMA32 (□80mm)方形 Square BLDC - 32BSTE Series

■ 技术数据 Electrical Specifications

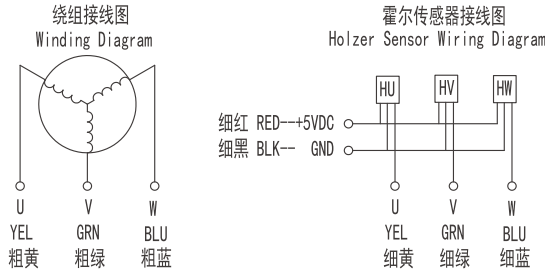
电机型号 Motor Model	32BSTE481830	32BSTE482530	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	8		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.6	0.8	
额定功率 Rated Power(W)	188	250	
额定电流 Rated Current(A)	5.0	7.0	
峰值电流 Peak Current(A)	15.0	21.0	
峰值转矩 Peak Torque(N.m)	1.8	2.4	
转子惯量 Rotor Inertia(kg.cm²)	0.6	0.7	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	
反电势常数 Torque Constant(V/krpm)	10.5	10.5	
线间电阻 Line-Line Resistance(Ω)	0.9	0.7	
线间电感 Line-Line Inductance(mH)	0.7	0.5	
机身长度 Length(mm)	99	109	
电机重量 Weight(kg)	1.5	1.7	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



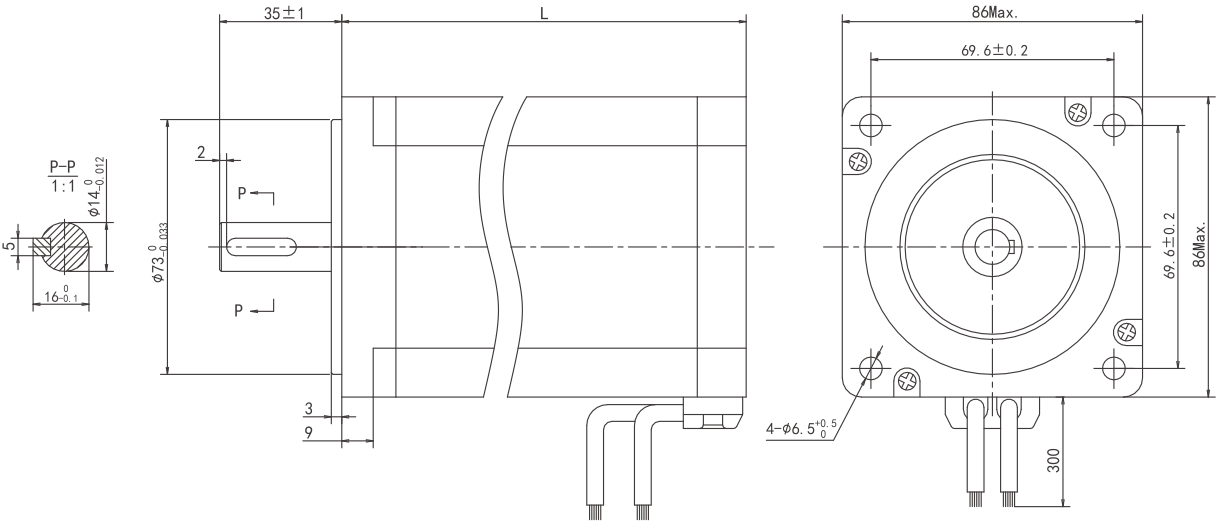
NEMA34 (□86mm) 方形 Square BLDC - 34WSTE Series

■ 技术数据 Electrical Specifications

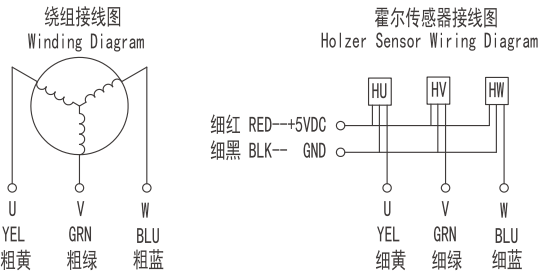
电机型号 Motor Model	34WSTE482230		34WSTE483130	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.7		1.0	
额定功率 Rated Power(W)	220		310	
额定电流 Rated Current(A)	5.8		8.6	
峰值电流 Peak Current(A)	17.4		25.8	
峰值转矩 Peak Torque(N.m)	2.1		3.0	
转子惯量 Rotor Inertia(kg.cm²)	1.6		1.9	
转矩常数 Torque Constant(N.m/A)	0.12		0.11	
反电势常数 Torque Constant(V/krpm)	11		10.5	
线间电阻 Line-Line Resistance(Ω)	0.6		0.5	
线间电感 Line-Line Inductance(mH)	0.5		0.4	
机身长度 Length(mm)	66.5		80.5	
电机重量 Weight(kg)	1.8		2.2	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



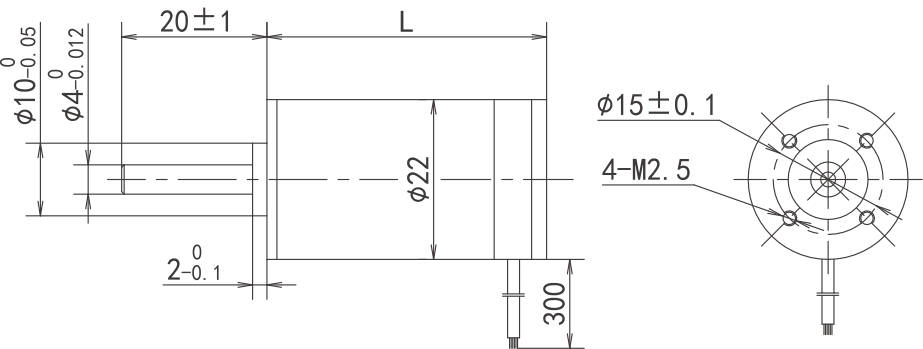
SIZE22 (○22mm) 圆形 Circular BLDC - 22RLSE Series

■ 技术数据 Electrical Specifications

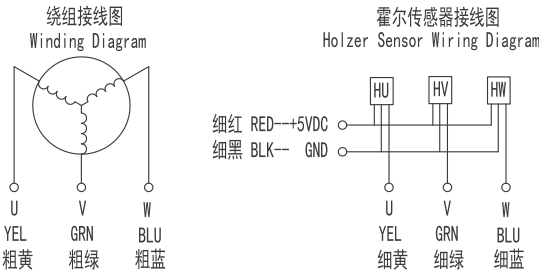
电机型号 Motor Model	22RLSE240340	22RLSE240640	22RLSE240940	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.0075	0.015	0.0225	
额定功率 Rated Power(W)	3	6	9	
额定电流 Rated Current(A)	0.2	0.4	0.6	
峰值电流 Peak Current(A)	0.6	1.2	1.8	
峰值转矩 Peak Torque(N.m)	0.0225	0.045	0.0675	
转子惯量 Rotor Inertia(kg.cm ²)	0.008	0.014	0.02	
转矩常数 Torque Constant(N.m/A)	0.04	0.04	0.04	
反电势常数 Torque Constant(V/krpm)	4.48	5.23	4.18	
线间电阻 Line-Line Resistance(Ω)	1.9	2.5	3.4	
线间电感 Line-Line Inductance(mH)	0.9	1.1	1.3	
机身长度 Length(mm)	34	44	54	
电机重量 Weight(kg)	0.2	0.3	0.4	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



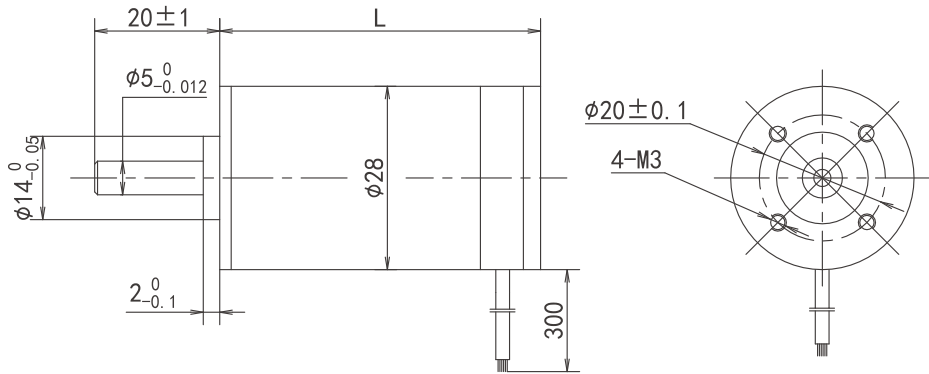
SIZE28 (○28mm) 圆形 Circular BLDC - 28RLSE Series

■ 技术数据 Electrical Specifications

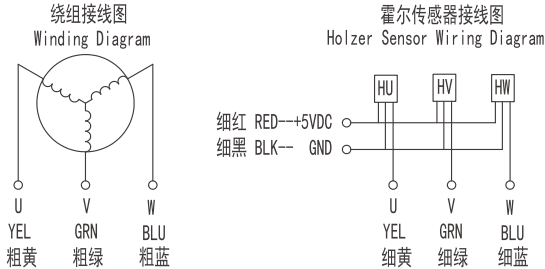
电机型号 Motor Model	28RLSE240840		28RLSE241240	28RLSE241640	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	4000				
额定转矩 Rated Torque(N.m)	0.02	0.03	0.04		
额定功率 Rated Power(W)	8	12.5	16.7		
额定电流 Rated Current(A)	0.4	0.6	0.8		
峰值电流 Peak Current(A)	1.2	1.8	2.4		
峰值转矩 Peak Torque(N.m)	0.06	0.09	0.12		
转子惯量 Rotor Inertia(kg.cm²)	0.009	0.018	0.025		
转矩常数 Torque Constant(N.m/A)	0.05	0.05	0.05		
反电势常数 Torque Constant(V/krpm)	4.48	5.23	4.18		
线间电阻 Line-Line Resistance(Ω)	1.9	2.5	3.4		
线间电感 Line-Line Inductance(mH)	0.9	1.1	1.3		
机身长度 Length(mm)	49	59	69		
电机重量 Weight(kg)	0.2	0.3	0.5		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



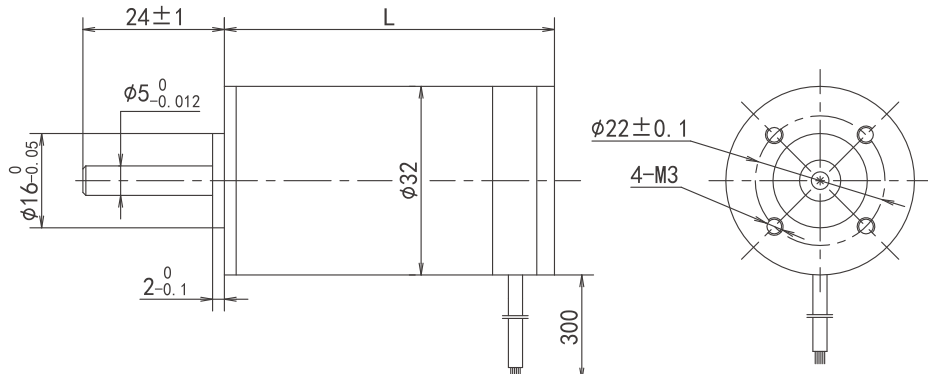
SIZE32 (○32mm) 圆形 Circular BLDC - 32RLSE Series

■ 技术数据 Electrical Specifications

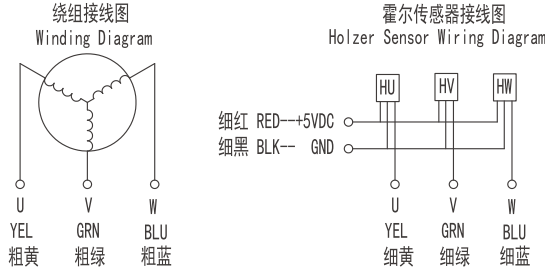
电机型号 Motor Model	32RLSE241240		32RLSE241840	32RLSE242540	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	4000				
额定转矩 Rated Torque(N.m)	0.03	0.045	0.06		
额定功率 Rated Power(W)	12.5	18.8	25		
额定电流 Rated Current(A)	0.7	0.9	1.3		
峰值电流 Peak Current(A)	2.1	2.7	3.9		
峰值转矩 Peak Torque(N.m)	0.09	0.13	0.18		
转子惯量 Rotor Inertia(kg.cm²)	0.01	0.02	0.03		
转矩常数 Torque Constant(N.m/A)	0.04	0.04	0.04		
反电势常数 Torque Constant(V/krpm)	4.48	5.23	4.18		
线间电阻 Line-Line Resistance(Ω)	1.9	2.5	3.4		
线间电感 Line-Line Inductance(mH)	0.9	1.1	1.3		
机身长度 Length(mm)	56	66	76		
电机重量 Weight(kg)	0.22	0.38	0.55		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



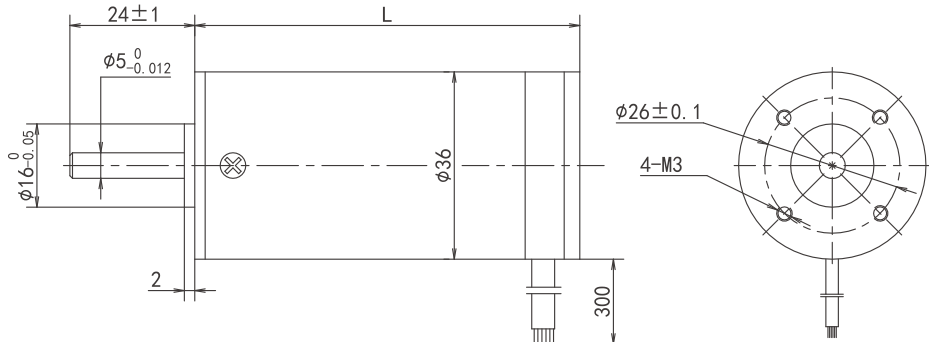
SIZE36 (○36mm) 圆形 Circular BLDC - 36RLSE Series

■ 技术数据 Electrical Specifications

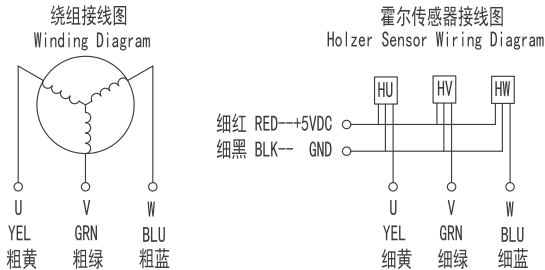
电机型号 Motor Model	36RLSE241640	36RLSE242540	36RLSE243340	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.04	0.06	0.08	
额定功率 Rated Power(W)	16.7	25	33.5	
额定电流 Rated Current(A)	0.8	1.25	1.7	
峰值电流 Peak Current(A)	2.4	3.75	5.2	
峰值转矩 Peak Torque(N.m)	0.12	0.18	0.24	
转子惯量 Rotor Inertia(kg.cm²)	0.02	0.02	0.03	
转矩常数 Torque Constant(N.m/A)	0.05	0.05	0.05	
反电势常数 Torque Constant(V/krpm)	4.5	4.6	4.5	
线间电阻 Line-Line Resistance(Ω)	2.5	3.1	3.4	
线间电感 Line-Line Inductance(mH)	1.1	1.2	1.3	
机身长度 Length(mm)	54	64	74	
电机重量 Weight(kg)	0.34	0.5	0.66	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



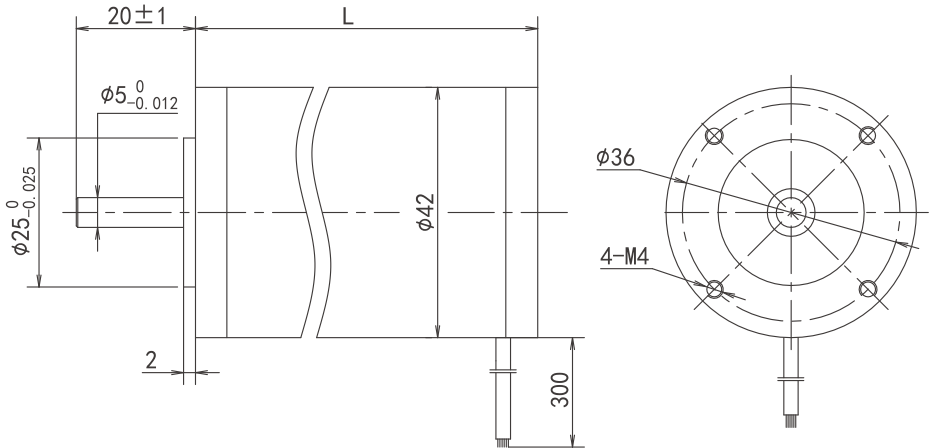
SIZE42 (○42mm) 圆形 Circular BLDC - 42BSSE Series

■ 技术数据 Electrical Specifications

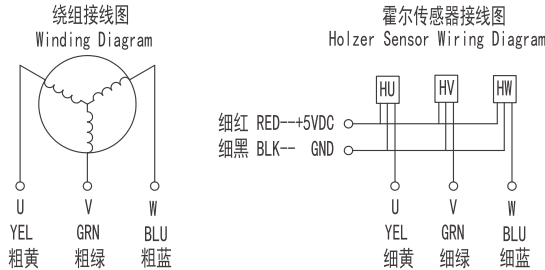
电机型号 Motor Model	42BSSE242830		42BSSE245630	42BSSE248430	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.09	0.18	0.27		
额定功率 Rated Power(W)	28	56	84		
额定电流 Rated Current(A)	1.7	3.4	5.4		
峰值电流 Peak Current(A)	5.1	10.2	16		
峰值转矩 Peak Torque(N.m)	0.27	0.54	0.81		
转子惯量 Rotor Inertia(kg.cm ²)	0.25	0.35	0.45		
转矩常数 Torque Constant(N.m/A)	0.05	0.05	0.05		
反电势常数 Torque Constant(V/krpm)	5.23	5.23	5.23		
线间电阻 Line-Line Resistance(Ω)	6	4	3		
线间电感 Line-Line Inductance(mH)	4	3	2		
机身长度 Length(mm)	52	72	92		
电机重量 Weight(kg)	0.28	0.48	0.68		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



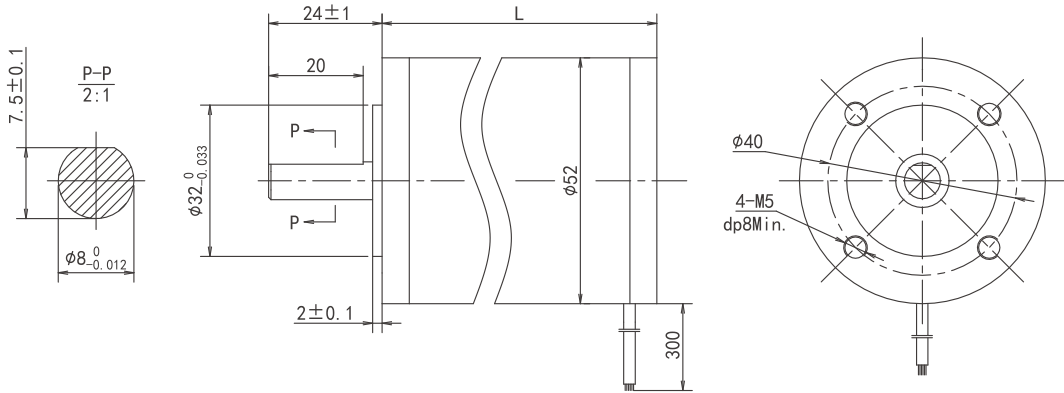
SIZE52 (○52mm) 圆形 Circular BLDC - 52BSSE Series

■ 技术数据 Electrical Specifications

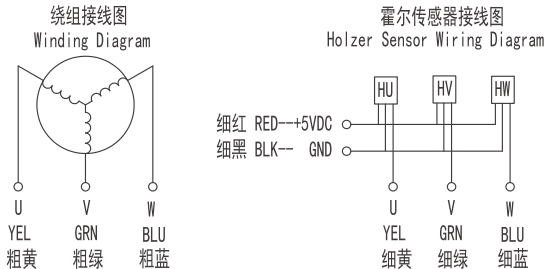
电机型号 Motor Model	52BSSE243030	52BSSE246030	52BSSE249030	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.1	0.2	0.3	
额定功率 Rated Power(W)	31	63	94	
额定电流 Rated Current(A)	1.8	3.6	5.4	
峰值电流 Peak Current(A)	5.4	10.8	16	
峰值扭矩 Peak Torque(N.m)	0.3	0.6	0.9	
转子惯量 Rotor Inertia(kg.cm²)	0.55	0.75	0.95	
转矩常数 Torque Constant(N.m/A)	0.055	0.055	0.055	
反电势常数 Torque Constant(V/krpm)	5.82	5.81	5.81	
线间电阻 Line-Line Resistance(Ω)	3	1.5	0.6	
线间电感 Line-Line Inductance(mH)	2.5	1.3	0.65	
机身长度 Length(mm)	58.5	78.5	98.5	
电机重量 Weight(kg)	0.38	0.88	1.37	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



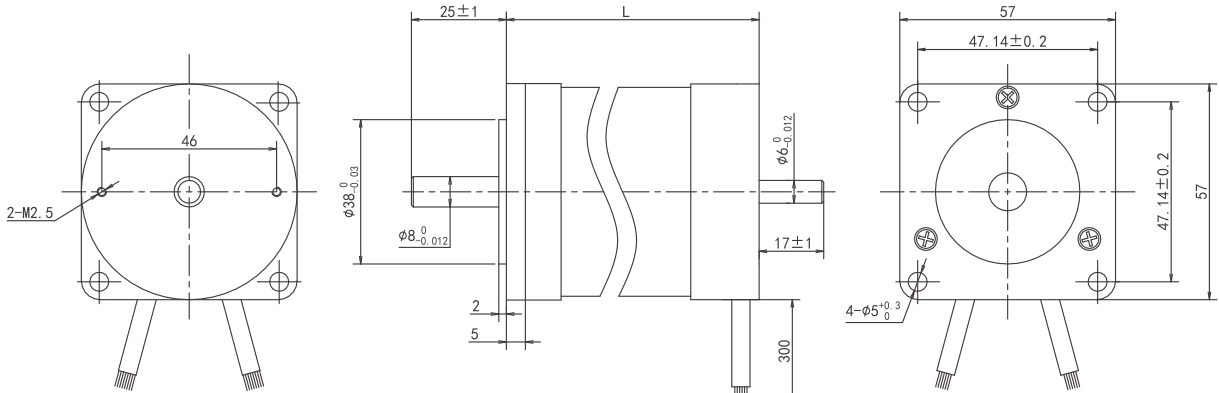
SIZE57 (○57mm) 圆形 Circular BLDC - 57WSSF Series

■ 技术数据 Electrical Specifications

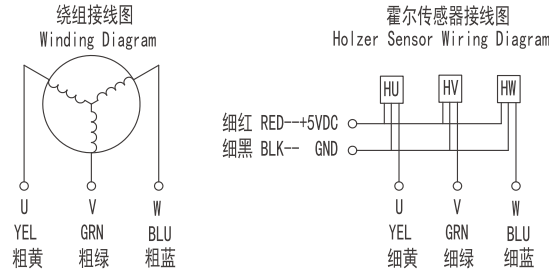
电机型号 Motor Model	57WSSF489040		57WSSF481840	57WSSF482740	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	4				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	4000				
额定转矩 Rated Torque(N.m)	0.22	0.44	0.66		
额定功率 Rated Power(W)	92	184	276		
额定电流 Rated Current(A)	2.5	5.1	7.6		
峰值电流 Peak Current(A)	7.7	15.3	22.8		
峰值扭矩 Peak Torque(N.m)	0.66	1.32	1.98		
转子惯量 Rotor Inertia(kg.cm²)	1.19	1.73	1.73		
转矩常数 Torque Constant(N.m/A)	0.08	0.08	0.08		
反电势常数 Torque Constant(V/krpm)	9.2	9.2	9.2		
线间电阻 Line-Line Resistance(Ω)	0.75	0.55	0.41		
线间电感 Line-Line Inductance(mH)	2.2	2.1	1.1		
机身长度 Length(mm)	55	75	95		
电机重量 Weight(kg)	0.72	0.95	1.2		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)

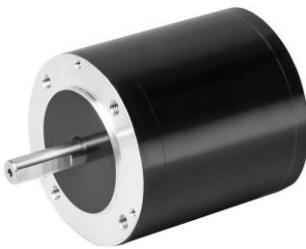


■ 接线图 Wiring Diagram



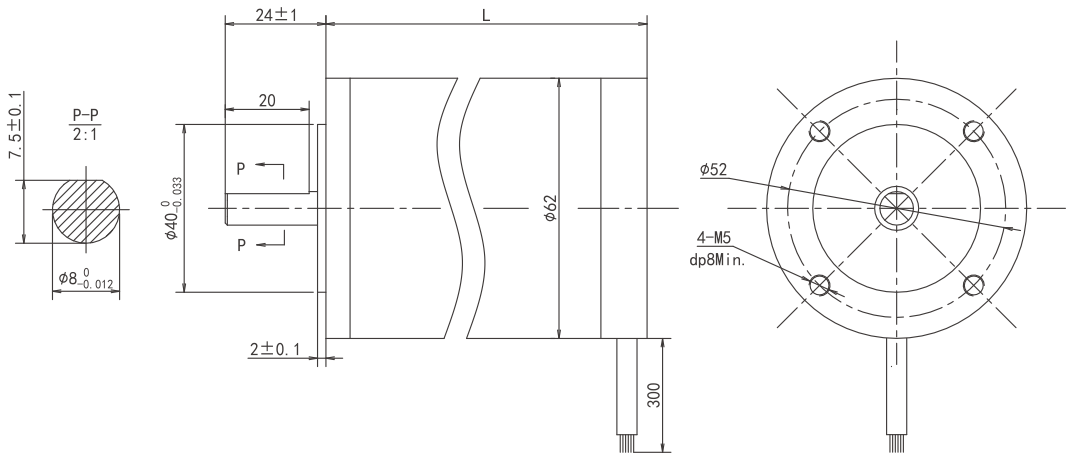
SIZE62 (○62mm) 圆形 Circular BLDC - 62BSTE Series

■ 技术数据 Electrical Specifications

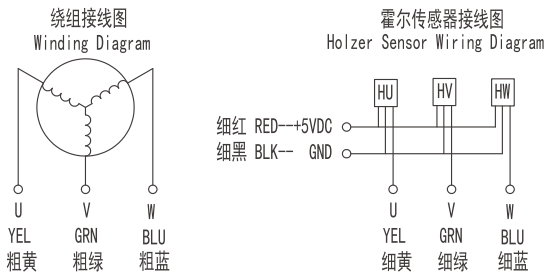
电机型号 Motor Model	62BSTE 487830	62BSTE 481130	62BSTE 481530	62BSTE 481930	62BSTE 482330	产品 Product
相数 Number of Phase	3					
极数 Number of Poles	8					
额定电压 Rated Voltage(VDC/VAC)	48					
额定转速 Rated Speed(Rpm)	3000					
额定转矩 Rated Torque(N.m)	0.25	0.37	0.5	0.62	0.75	
额定功率 Rated Power(W)	78	118	156	195	235	
额定电流 Rated Current(A)	2.2	3.3	4.4	5.5	6.6	
峰值电流 Peak Current(A)	6.6	9.9	13.2	16.5	19.8	
峰值转矩 Peak Torque(N.m)	0.75	1.11	1.5	1.86	2.25	
转子惯量 Rotor Inertia(kg.cm²)	0.6	0.7	0.8	0.9	1.0	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.11	0.11	0.11	
反电势常数 Torque Constant(V/krpm)	10.5	10.5	10.5	10.5	10.5	
线间电阻 Line-Line Resistance(Ω)	1.8	1.5	1.2	0.9	0.6	
线间电感 Line-Line Inductance(mH)	1.5	1.3	1.0	0.7	0.65	
机身长度 Length(mm)	61	71	81	91	101	
电机重量 Weight(kg)	0.72	0.88	1.04	1.2	1.37	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



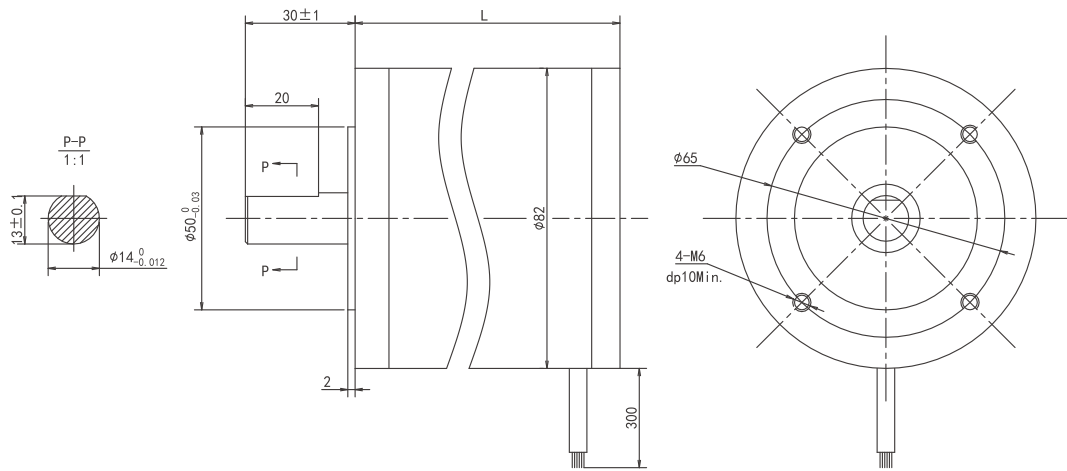
SIZE82 (○82mm) 圆形 Circular BLDC - 82BSTE Series

■ 技术数据 Electrical Specifications

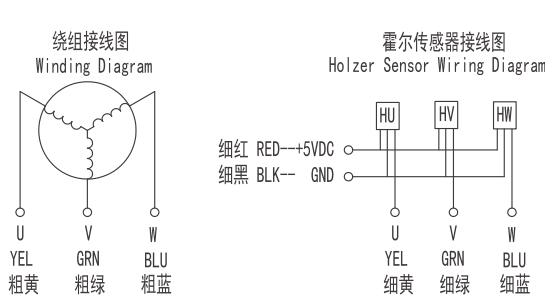
电机型号 Motor Model	82BSTE481830		82BSTE482530	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC/VAC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.6	0.8		
额定功率 Rated Power(W)	188	250		
额定电流 Rated Current(A)	5.0	7.0		
峰值电流 Peak Current(A)	15.0	21.0		
峰值转矩 Peak Torque(N.m)	1.8	2.4		
转子惯量 Rotor Inertia(kg.cm²)	0.6	0.7		
转矩常数 Torque Constant(N.m/A)	0.12	0.11		
反电势常数 Torque Constant(V/krpm)	11	10.5		
线间电阻 Line-Line Resistance(Ω)	0.9	0.7		
线间电感 Line-Line Inductance(mH)	0.7	0.5		
机身长度 Length(mm)	80	90		
电机重量 Weight(kg)	1.5	1.7		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

PLANETERY GEARBOX BRUSHLESS MOTOR SERIES

行星减速无刷电机系列

08



行星减速无刷电机 Planetary Gearbox Brushless Motor

行星减速无刷电机具有高精度、高刚性、高负载、高效率、高速比、高寿命、低惯性、低振动、低噪音、低温升、外观美、结构轻小、安装方便、精确定位等特点。

Planetary gearbox brushless Motor has the characteristics of high precision, high rigidity, high load, high efficiency, high speed ratio, high life, low inertia, low vibration, low noise, low temperature rise, beautiful appearance, light structure, easy installation, accurate positioning and so on.

混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

NEMA9 (□22mm) 方形 Square Planetary Gearbox BLDC - 22PSR-9WLSE Series

■ 技术数据 Electrical Specifications

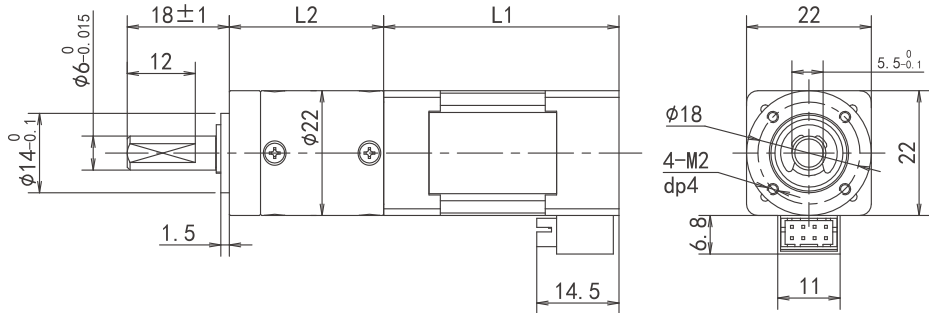
电机型号 Motor Model	9WLSE240440	9WLSE240840	9WLSE241240	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.01	0.02	0.03	
额定功率 Rated Power(W)	4	8	12	
机身长度L1 Length(mm)	31.5	41.5	51.5	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

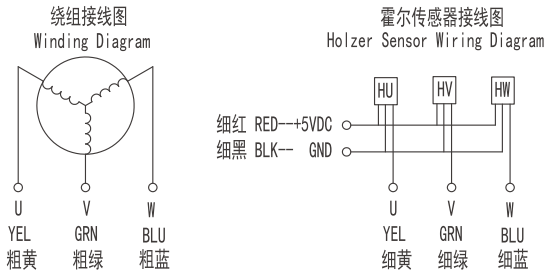
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2	3
传动效率 Transmission efficiency	90%	81%	73%
最大径向负载 Max radial load(N)	10	10	10
最大轴向负载 Max axial load(N)	6	6	6
额定承受扭矩 Transmission torque(N.m)	0.1	0.4	0.8
减速比 Reduction Ratio	3.71, 5.18	14, 19, 27	51, 71, 100, 139
长度L2 Length(mm)	21	27.2	33.4

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



NEMA11 (28mm) 方形 Square Planetary Gearbox BLDC - 28PGR-11WLSE Series

■ 技术数据 Electrical Specifications

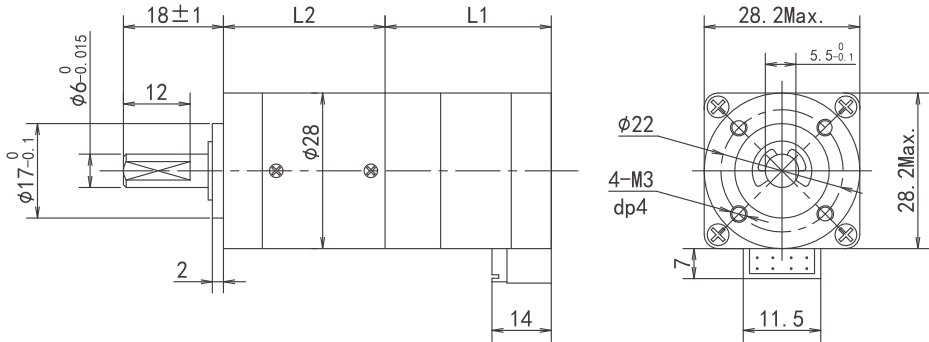
电机型号 Motor Model	11WLSE241240	11WLSE241840	11WLSE242540	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.03	0.045	0.06	
额定功率 Rated Power(W)	12.5	18.8	25	
机身长度L1 Length(mm)	46	56	66	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

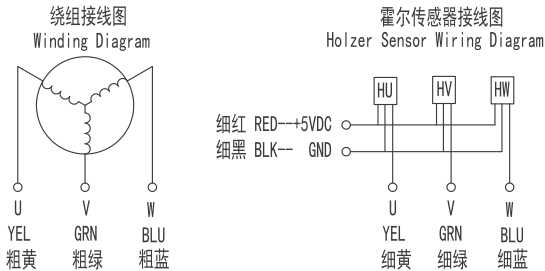
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2	3
传动效率 Transmission efficiency	90%	81%	73%
最大径向负载 Max radial load(N)	35	35	35
最大轴向负载 Max axial load(N)	20	20	20
额定承受扭矩 Transmission torque(N.m)	0.3	1.2	2.5
减速比 Reduction Ratio	3.7, 5.2, 6.75	14, 19, 25, 27, 35, 45	51, 71, 100, 139, 181, 236, 307
长度L2 Length(mm)	25.6	34	42

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



NEMA14 (□35mm) 方形 Square Planetary Gearbox BLDC - 32PGR-14WLSE Series

■ 技术数据 Electrical Specifications

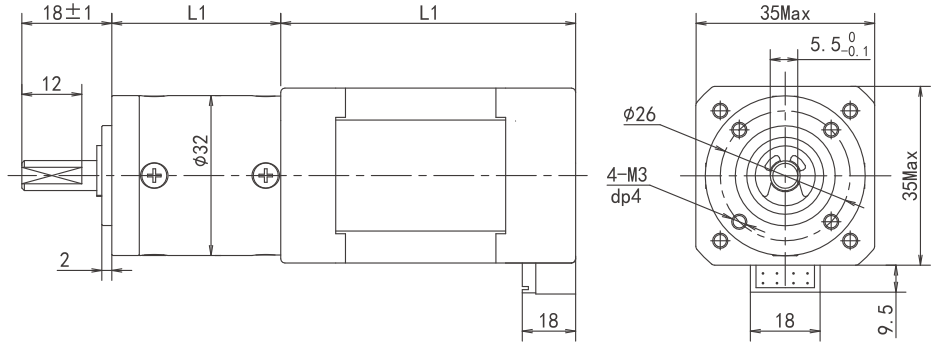
电机型号 Motor Model	14WLSE241640	14WLSE242540	14WLSE243340	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.04	0.06	0.08	
额定功率 Rated Power(W)	16.7	25	33.5	
机身长度L1 Length(mm)	49	59	69	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

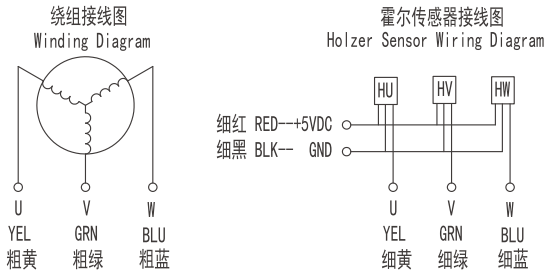
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2	3
传动效率 Transmission efficiency	90%	81%	73%
最大径向负载 Max radial load(N)	35	35	35
最大轴向负载 Max axial load(N)	20	20	20
额定承受扭矩 Transmission torque(N.m)	0.3	1.2	2.5
减速比 Reduction Ratio	3.7, 5.18, 6.75	14, 19, 25, 27, 35, 46	51, 71, 93, 100, 139, 181, 236, 307
长度L2 Length(mm)	25.6	34	42

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



NEMA17 (□42mm) 方形 Square Planetary Gearbox BLDC - 42PER-17WSTE Series

■ 技术数据 Electrical Specifications

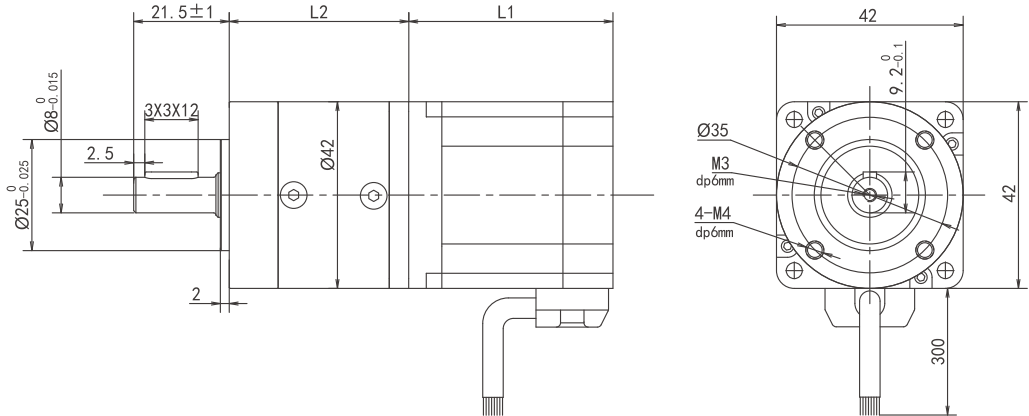
电机型号 Motor Model	17WSTE243030	17WSTE246030	17WSTE249030	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.1	0.2	0.3	
额定功率 Rated Power(W)	31	63	94	
机身长度 L1 Length(mm)	47	67	87	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

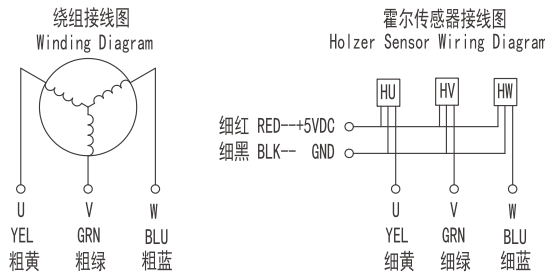
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2
传动效率 Transmission efficiency	96%	94%
最大径向负载 Max radial load(N)	150	150
最大轴向负载 Max axial load(N)	80	80
额定承受扭矩 Transmission torque(N.m)	6	10
减速比 Reduction Ratio	5, 7, 10	16, 20, 25, 28, 35, 40, 50, 70
长度L2 Length(mm)	39	51.5

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



NEMA23 (□57mm) 方形 Square Planetary Gearbox BLDC - 57PGF-23WSTE Series

■ 技术数据 Electrical Specifications

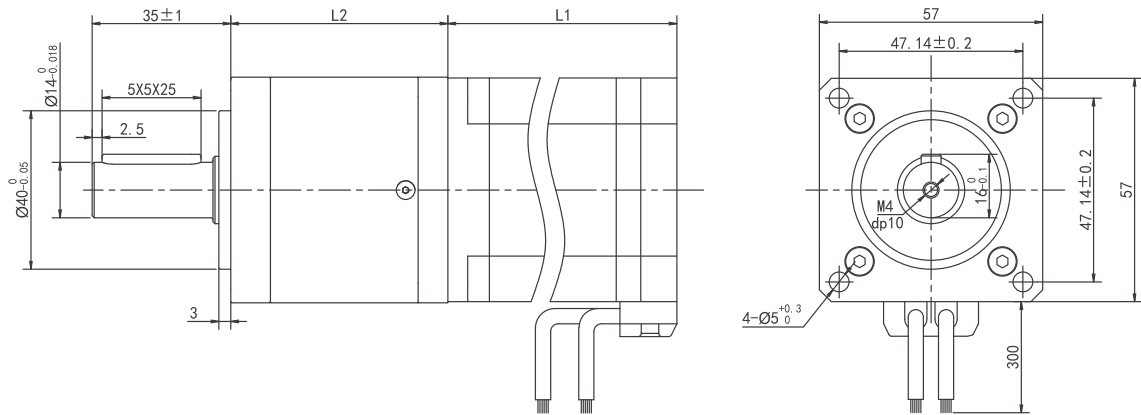
电机型号 Motor Model	23WSTE486030	23WSTE481230	23WSTE481830	产品 Product
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.2	0.4	0.6	
额定功率 Rated Power(W)	60	120	180	
机身长度 L1 Length(mm)	58	78	98	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer's requirements.

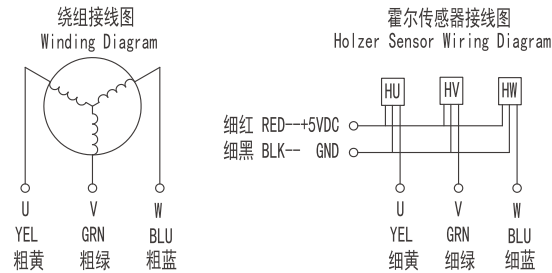
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2
传动效率 Transmission efficiency	95%	90%
最大径向负载 Max radial load(N)	580	580
最大轴向负载 Max axial load(N)	340	340
额定承受扭矩 Transmission torque(N.m)	25	40
减速比 Reduction Ratio	5, 10	15, 20, 25, 30, 40, 50
长度L2 Length(mm)	55	71

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



NEMA24 (□60mm) 方形 Square Planetary Gearbox BLDC - 60PER-24WSTE Series

■ 技术数据 Electrical Specifications

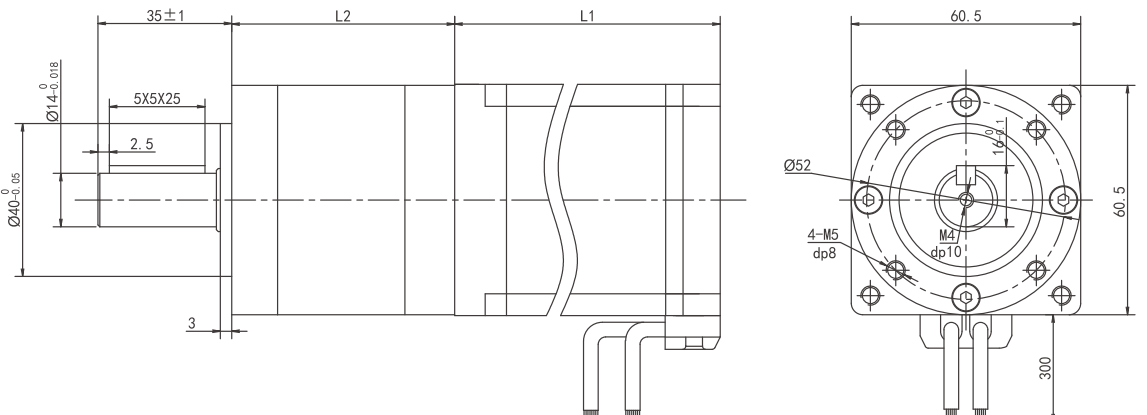
电机型号 Motor Model	24WSTE487830	24WSTE481530	24WSTE482330	产品 Product
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.25	0.5	0.75	
额定功率 Rated Power(W)	78	156	234	
机身长度 L1 Length(mm)	66	87	108	

*以上仅为代表性产品,派生产品可根据客户要求制作 *Note:We can manufacture products according to customer's requirements.

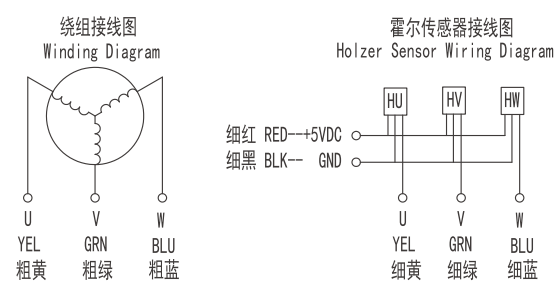
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1			2								
传动效率 Transmission efficiency	96%			94%								
最大径向负载 Max radial load(N)	580			580								
最大轴向负载 Max axial load(N)	340			340								
额定承受扭矩 Transmission torque(N.m)	28	20	10	30	30	32	30	30	25	25	20	
减速比 Reduction Ratio	5	7	10	16	20	25	28	35	40	50	70	
长度L2 Length(mm)	49.3			63								

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



NEMA32 (□80mm) 方形 Square Planetary Gearbox BLDC - 80PER-32BSTE Series

■ 技术数据 Electrical Specifications

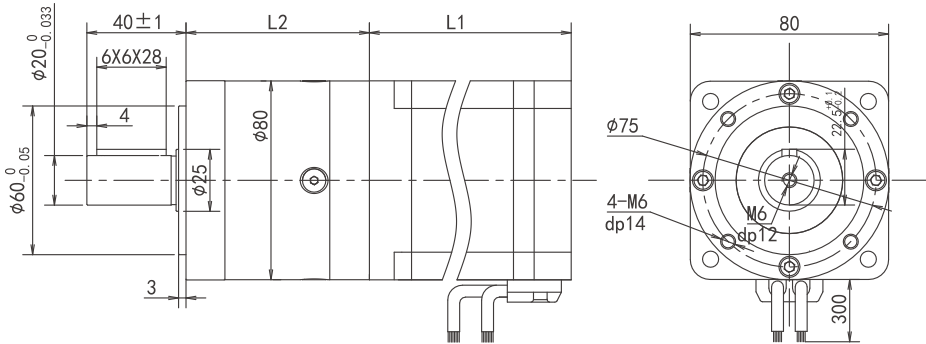
电机型号 Motor Model	32BSTE481830	32BSTE482530	产品 Product
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.6	0.8	
额定功率 Rated Power(W)	188	250	
机身长度L1 Length(mm)	99	109	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

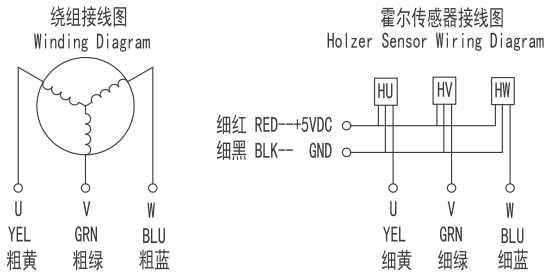
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1			2							
传动效率 Transmission efficiency	96%			94%							
最大径向负载 Max radial load(N)	1000			1000							
最大轴向负载 Max axial load(N)	500			500							
额定承受扭矩 Transmission torque(N.m)	94.5	64	39.5	96	96	105.5	96	105.5	96	105.5	71.5
减速比 Reduction Ratio	5	7	10	16	20	25	28	35	40	50	70
长度L2 Length(mm)	85			107							

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



NEMA34 (□86mm) 方形 Square Planetary Gearbox BLDC - 86PER-34WSTE Series

■ 技术数据 Electrical Specifications

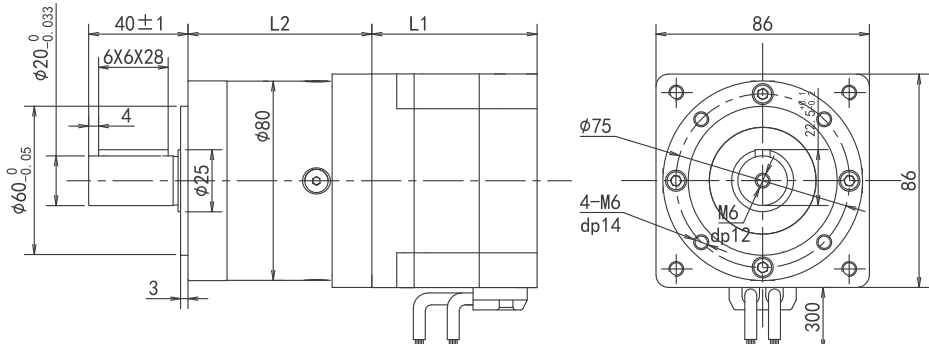
电机型号 Motor Model	34WSTE482230	34WSTE483130	产品 Product
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.7	1.0	
额定功率 Rated Power(W)	220	310	
机身长度L1 Length(mm)	66.5	80.5	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

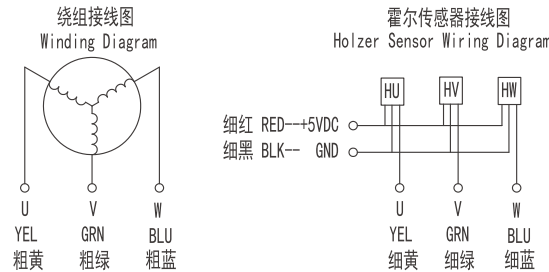
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1			2							
传动效率 Transmission efficiency	96%			94%							
最大径向负载 Max radial load(N)	1000			1000							
最大轴向负载 Max axial load(N)	500			500							
额定承受扭矩 Transmission torque(N.m)	94.5	64	39.5	96	96	105.5	96	105.5	96	105.5	71.5
减速比 Reduction Ratio	5	7	10	16	20	25	28	35	40	50	70
长度L2 Length(mm)	85			107							

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE22 (○22mm) 圓形 Circular Planetary Gearbox BLDC - 22PSR-22RLSE Series

■ 技术数据 Electrical Specifications

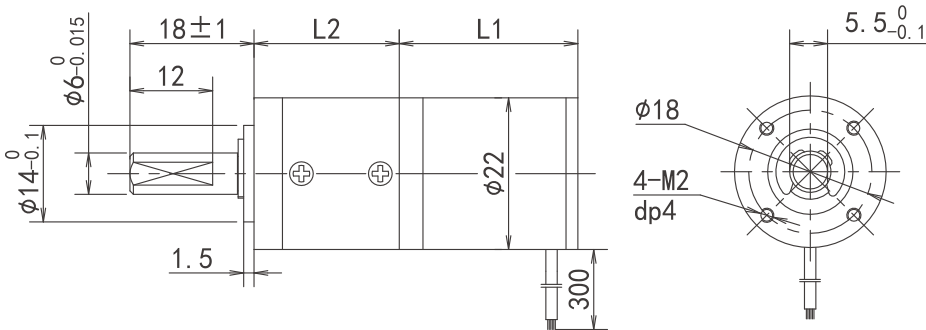
电机型号 Motor Model	22RLSE240340	22RLSE240640	22RLSE240940	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.0075	0.015	0.0225	
额定功率 Rated Power(W)	3	6	9	
机身长度L1 Length(mm)	34	44	54	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

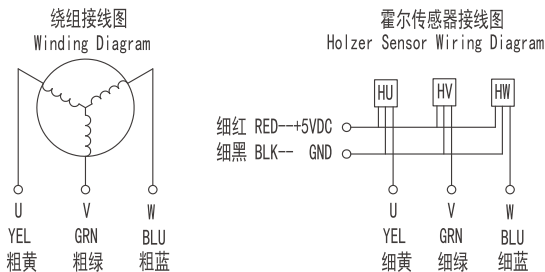
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2	3
传动效率 Transmission efficiency	90%	81%	73%
最大径向负载 Max radial load(N)	10	10	10
最大轴向负载 Max axial load(N)	6	6	6
额定承受扭矩 Transmission torque(N.m)	0.1	0.4	0.8
减速比 Reduction Ratio	3.71, 5.18	14, 19, 27	51, 71, 100, 139
长度L2 Length(mm)	21	27.2	33.4

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE28 (○28mm) 圓形 Circular Planetary Gearbox BLDC - 28PGR-28RLSE Series

■ 技术数据 Electrical Specifications

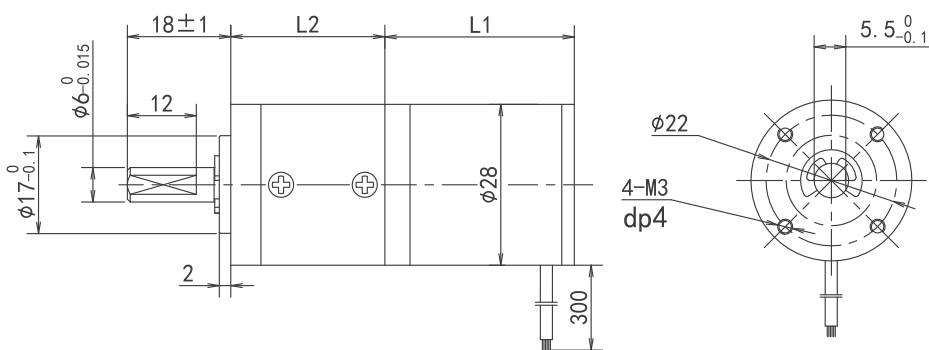
电机型号 Motor Model	28RLSE240840	28RLSE241240	28RLSE241640	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.02	0.03	0.04	
额定功率 Rated Power(W)	8	12.5	16.7	
机身长度 L1 Length(mm)	49	59	69	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

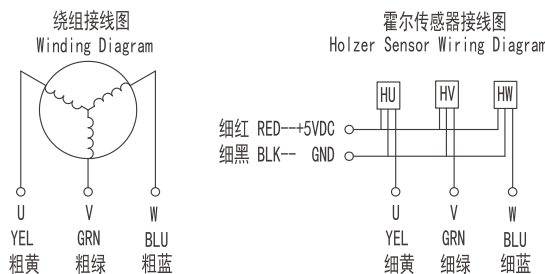
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2	3
传动效率 Transmission efficiency	90%	81%	73%
最大径向负载 Max radial load(N)	35	35	35
最大轴向负载 Max axial load(N)	20	20	20
额定承受扭矩 Transmission torque(N.m)	0.3	1.2	2.5
减速比 Reduction Ratio	3.7, 5.18, 6.75	14, 19, 25, 27, 35, 45	51, 71, 93, 100, 139, 181, 236, 307
长度L2 Length(mm)	25.6	34	42

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE32 (○32mm) 圆形 Circular Planetary Gearbox BLDC - 32PGR-32RLSE Series

■ 技术数据 Electrical Specifications

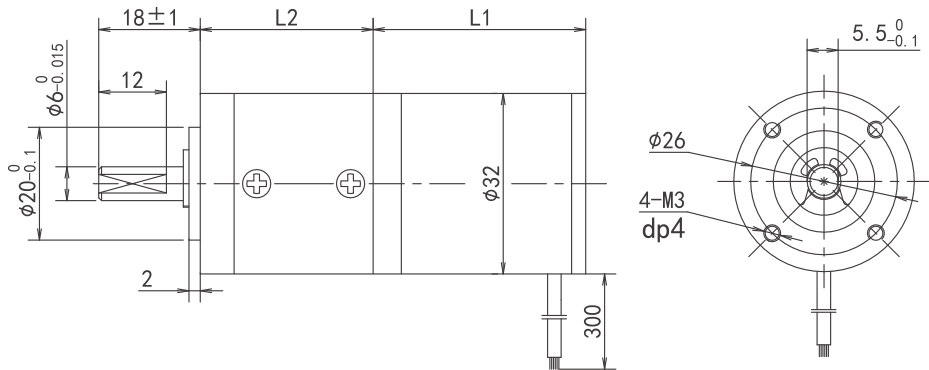
电机型号 Motor Model	32RLSE240930	32RLSE241430	32RLSE241830	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.03	0.045	0.06	
额定功率 Rated Power(W)	12.5	18.8	25	
机身长度L1 Length(mm)	56	66	76	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

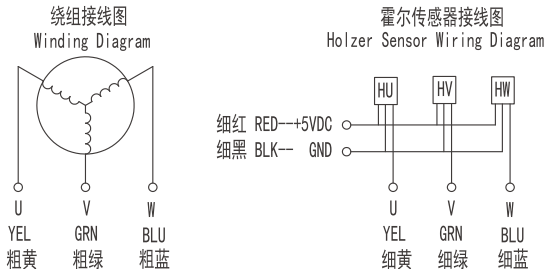
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2	3
传动效率 Transmission efficiency	90%	81%	73%
最大径向负载 Max radial load(N)	35	35	35
最大轴向负载 Max axial load(N)	20	20	20
额定承受扭矩 Transmission torque(N.m)	0.3	1.2	2.5
减速比 Reduction Ratio	3.7, 5.18, 6.75	14, 19, 25, 27, 35, 46	51, 71, 93, 100, 139, 181, 236, 307
长度L2 Length(mm)	25.6	34	42

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE36 (○36mm) 圆形 Circular Planetary Gearbox BLDC - 36PGR-36RLSE Series

■ 技术数据 Electrical Specifications

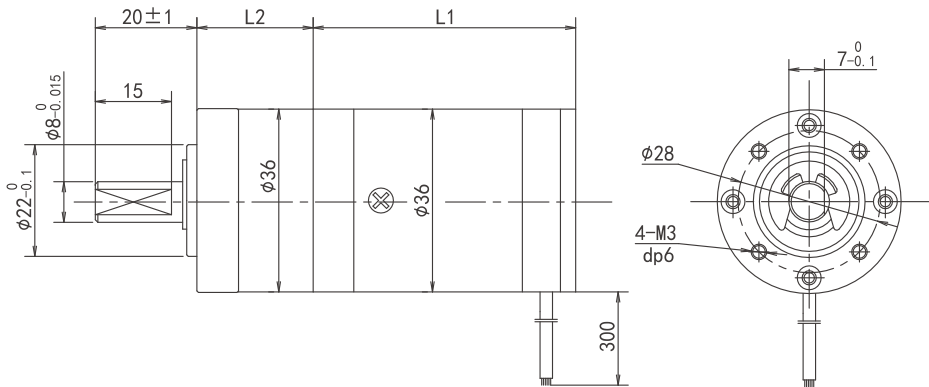
电机型号 Motor Model	36RLSE241640	36RLSE242540	36RLSE243340	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	4000			
额定转矩 Rated Torque(N.m)	0.04	0.06	0.08	
额定功率 Rated Power(W)	16.7	25	33.5	
机身长度L1 Length(mm)	59	69	79	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

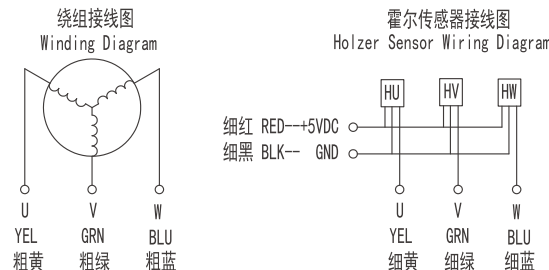
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2	3
传动效率 Transmission efficiency	90%	81%	73%
最大径向负载 Max radial load(N)	40	40	40
最大轴向负载 Max axial load(N)	20	20	20
额定承受扭矩 Transmission torque(N.m)	0.3	1.2	2.5
减速比 Reduction Ratio	3.7, 5.18, 6.75	14, 19, 25, 27, 35, 46	51, 71, 93, 100, 139, 181, 236, 307
长度L2 Length(mm)	23	31.3	39.7

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE42 (○42mm) 圆形 Circular Planetary Gearbox BLDC - 42PER-42BSSE Series

■ 技术数据 Electrical Specifications

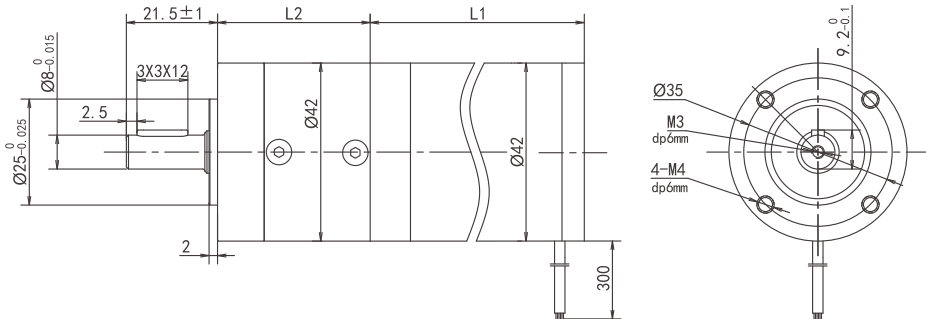
电机型号 Motor Model	42BSSE242830	42BSSE245630	42BSSE248430	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.09	0.18	0.27	
额定功率 Rated Power(W)	28	56	84	
机身长度L1 Length(mm)	58	78	98	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

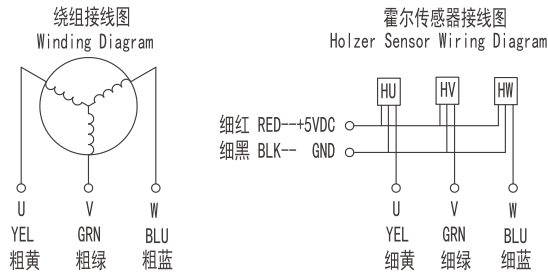
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2
传动效率 Transmission efficiency	96%	94%
最大径向负载 Max radial load(N)	150	150
最大轴向负载 Max axial load(N)	80	80
额定承受扭矩 Transmission torque(N.m)	6	10
减速比 Reduction Ratio	5 , 7, 10	16, 20, 25, 28, 35, 40, 50, 70
长度L2 Length(mm)	39	51.5

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE52 (○52mm) 圆形 Circular Planetary Gearbox BLDC - 52PER-52BSSE Series

■ 技术数据 Electrical Specifications

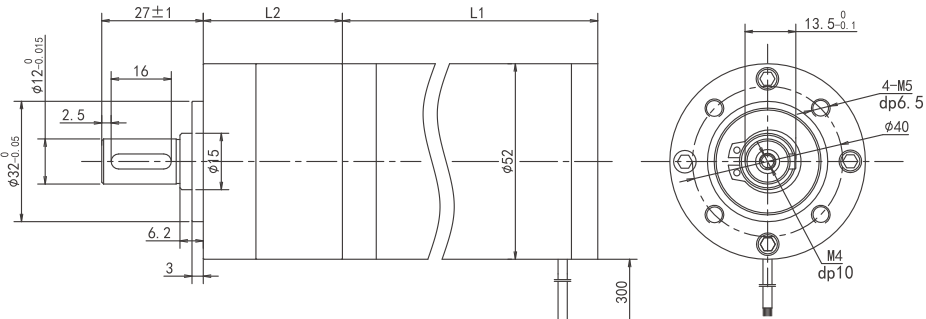
电机型号 Motor Model	52BSSE243030	52BSSE246030	52BSSE249030	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.1	0.2	0.3	
额定功率 Rated Power(W)	31	63	94	
机身长度L1 Length(mm)	59	79	99	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

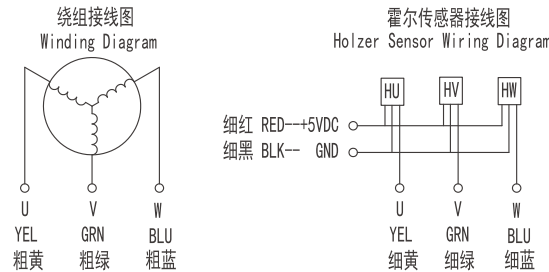
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2
传动效率 Transmission efficiency	96%	94%
最大径向负载 Max radial load(N)	200	200
最大轴向负载 Max axial load(N)	100	100
额定承受扭矩 Transmission torque(N.m)	6	12
减速比 Reduction Ratio	5, 7, 10	16, 20, 25, 28, 35, 40, 50, 70
长度L2 Length(mm)	37.5	50

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE57(○57mm) 圆形 Circular Planetary Gearbox BLDC - 60PER-57WSSF Series

■ 技术数据 Electrical Specifications

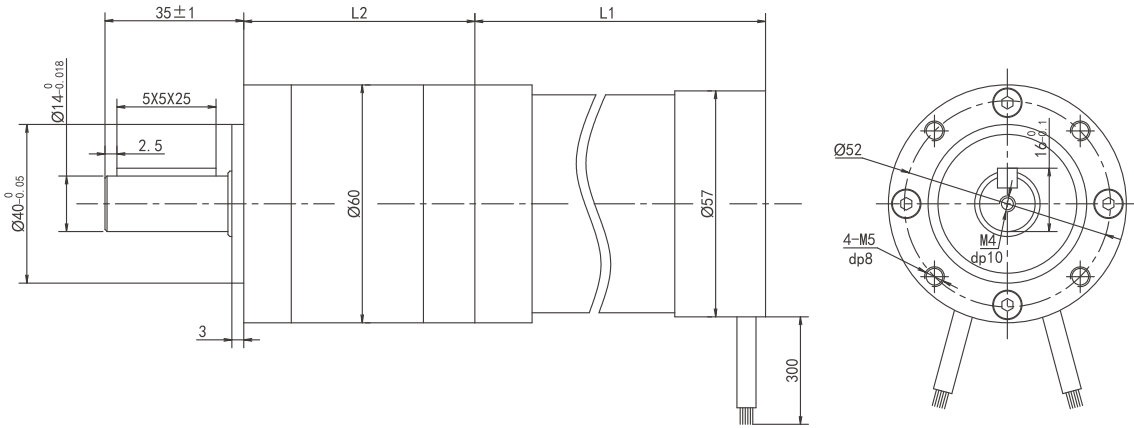
电机型号 Motor Model	57WSSF487030	57WSSF481430	57WSSF482130	产品 Product
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.22	0.44	0.66	
额定功率 Rated Power(W)	70	140	210	
机身长度L1 Length(mm)	55	75	95	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

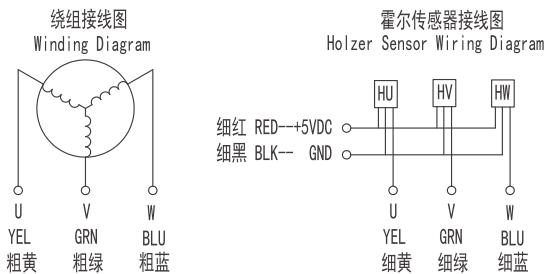
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1				2							
传动效率 Transmission efficiency	96%				94%							
最大径向负载 Max radial load(N)	580				580							
最大轴向负载 Max axial load(N)	340				340							
额定承受扭矩 Transmission torque(N.m)	28	20	10	30	30	32	30	30	25	25	20	
减速比 Reduction Ratio	5	7	10	16	20	25	28	35	40	50	70	
长度L2 Length(mm)	38.3				52							

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE62(○62mm) 圆形 Circular Planetary Gearbox BLDC - 60PER-62BSTE Series

■ 技术数据 Electrical Specifications

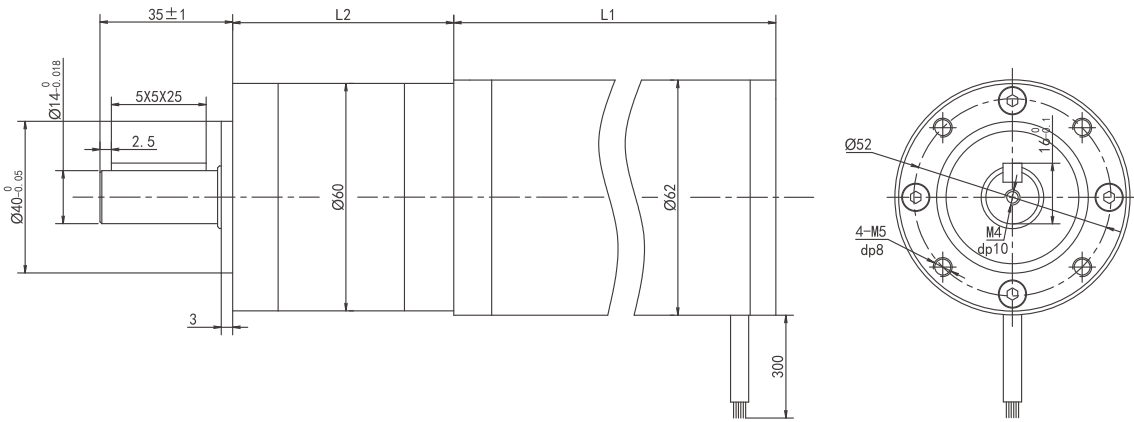
电机型号 Motor Model	62BSTE 487830	62BSTE 481130	62BSTE 481530	62BSTE 481930	62BSTE 482330	产品 Product
额定电压 Rated Voltage(VDC/VAC)	48					
额定转速 Rated Speed(Rpm)	3000					
额定转矩 Rated Torque(N.m)	0.25	0.37	0.5	0.62	0.75	
额定功率 Rated Power(W)	78	118	156	195	235	
机身长度L1 Length(mm)	61	71	81	91	101	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

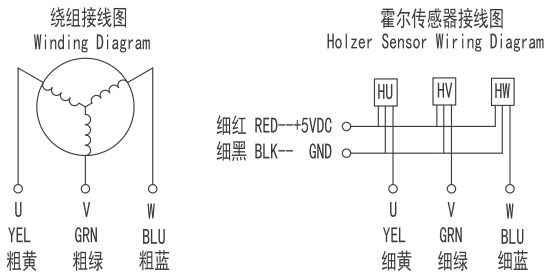
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1				2							
传动效率 Transmission efficiency	96%				94%							
最大径向负载 Max radial load(N)	580				580							
最大轴向负载 Max axial load(N)	340				340							
额定承受扭矩 Transmission torque(N.m)	28	20	10	30	30	32	30	30	25	25	20	
减速比 Reduction Ratio	5	7	10	16	20	25	28	35	40	50	70	
长度L2 Length(mm)	38.3				52							

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE82 (○82mm) 圆形 Circular Planetary Gearbox BLDC - 80PER-82BSTE Series

■ 技术数据 Electrical Specifications

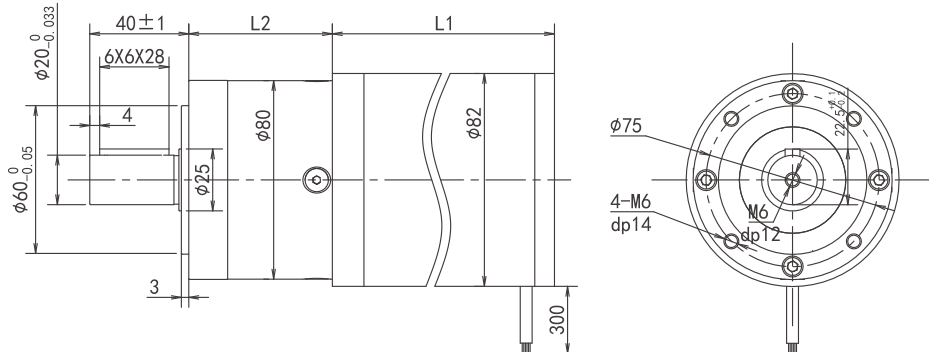
电机型号 Motor Model	82BSTE481830	82BSTE482530	产品 Product
额定电压 Rated Voltage(VDC/VAC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.6	0.8	
额定功率 Rated Power(W)	188	250	
机身长度L1 Length(mm)	93	103	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

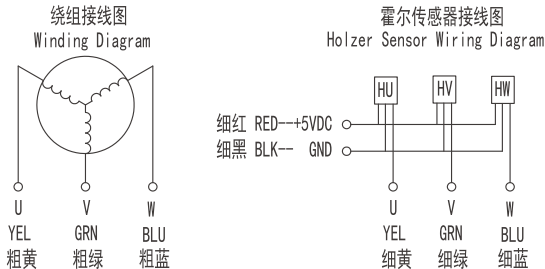
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1			2							
传动效率 Transmission efficiency	96%			94%							
最大径向负载 Max radial load(N)	1000			1000							
最大轴向负载 Max axial load(N)	500			500							
额定承受扭矩 Transmission torque(N.m)	94.5	64	39.5	96	96	105.5	96	105.5	96	105.5	71.5
减速比 Reduction Ratio	5	7	10	16	20	25	28	35	40	50	70
长度L2 Length(mm)	69			91							

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram





伺服电机 Servo Motor

伺服电机可使控制速度，位置精度非常准确，可以将电压信号转化为转矩和转速以驱动控制对象。伺服电机转子转速受输入信号控制，并能快速反应，在自动控制系统中，用作执行元件，且具有机电时间常数小、线性度高、始动电压等特性，可把所收到的电信号转换成电动机轴上的角位移或角速度输出。分为直流和交流伺服电动机两大类，其主要特点是，当信号电压为零时无自转现象，转速随着转矩的增加而匀速下降。

The servomotor can control the speed, position accuracy is very accurate, can convert the voltage signal to the torque and speed to drive the control object. The rotor speed of the servomotor is controlled by the input signal and can respond quickly. In the automatic control system, it is used as an actuator with the characteristics of small electromechanical time constant, high linearity and starting voltage, etc. It can convert the received electrical signals into angular displacement or angular velocity output on the motor shaft. It can be divided into DC and AC servo motors. Its main feature is that when the signal voltage is zero, there is no rotation phenomenon, and the rotation speed decreases uniformly with the increase of torque.

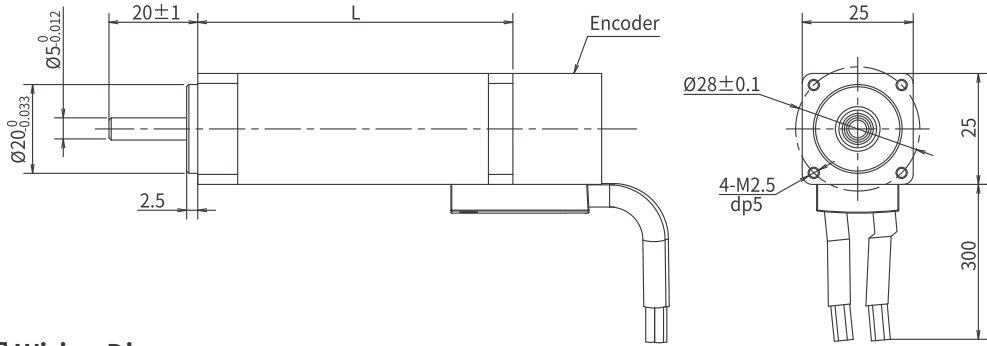
NEMA10 (□25mm) 方形 Square Servo Motor - 10SYNE Low Voltage Series

■ 技术数据 Electrical Specifications

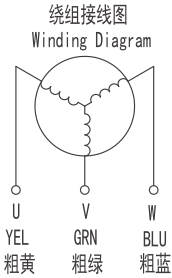
电机型号 Motor Model	10SYNE482030		10SYNE483030	10SYNE484030	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.06	0.09	0.12		
额定功率 Rated Power(W)	20	30	40		
额定电流 Rated Current(A)	0.7	1.05	1.4		
峰值电流 Peak Current(A)	2.1	3.15	4.2		
峰值转矩 Peak Torque(N.m)	0.18	0.27	0.36		
转子惯量 Rotor Inertia(kg.cm²)	0.015	0.02	0.025		
转矩常数 Torque Constant(N.m/A)	0.12	0.12	0.12		
反电势常数 Torque Constant(V/krpm)	3.2	3.2	3.2		
线间电阻 Line-Line Resistance(Ω)	4.1	3.8	3.5		
线间电感 Line-Line Inductance(mH)	2.5	2.0	1.5		
机身长度 Length(mm)	51	61	71		
电机重量 Weight(kg)	0.3	0.4	0.5		
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500,4096,17bit				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



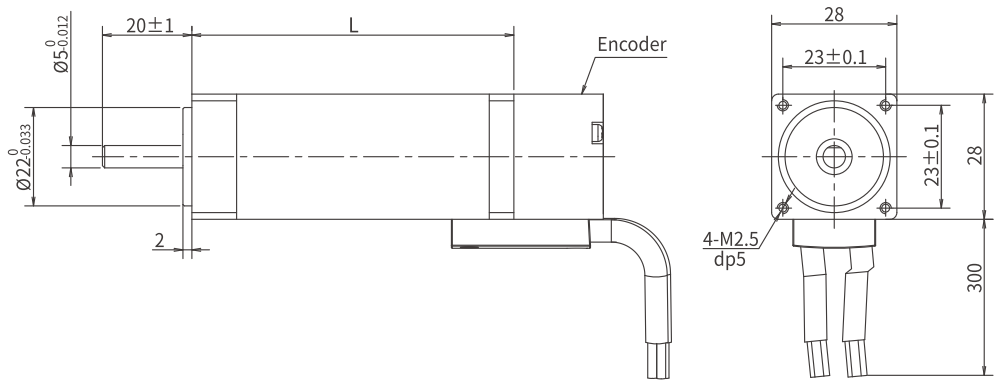
NEMA11 (□28mm) 方形 Square Servo Motor - 11SYNE Low Voltage Series

■ 技术数据 Electrical Specifications

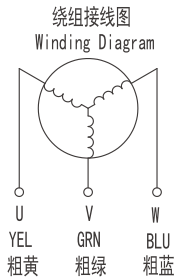
电机型号 Motor Model	11SYNE482530		11SYNE483830	11SYNE485030	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.08	0.12	0.16		
额定功率 Rated Power(W)	25	38	50		
额定电流 Rated Current(A)	0.9	1.3	1.8		
峰值电流 Peak Current(A)	2.7	3.9	5.4		
峰值扭矩 Peak Torque(N.m)	0.24	0.36	0.48		
转子惯量 Rotor Inertia(kg.cm²)	0.018	0.023	0.028		
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.11		
反电势常数 Torque Constant(V/krpm)	3.5	3.5	3.5		
线间电阻 Line-Line Resistance(Ω)	3.3	2.8	2.3		
线间电感 Line-Line Inductance(mH)	2.3	1.8	1.3		
机身长度 Length(mm)	52	62	72		
电机重量 Weight(kg)	0.4	0.6	0.8		
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500,4096,17bit				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



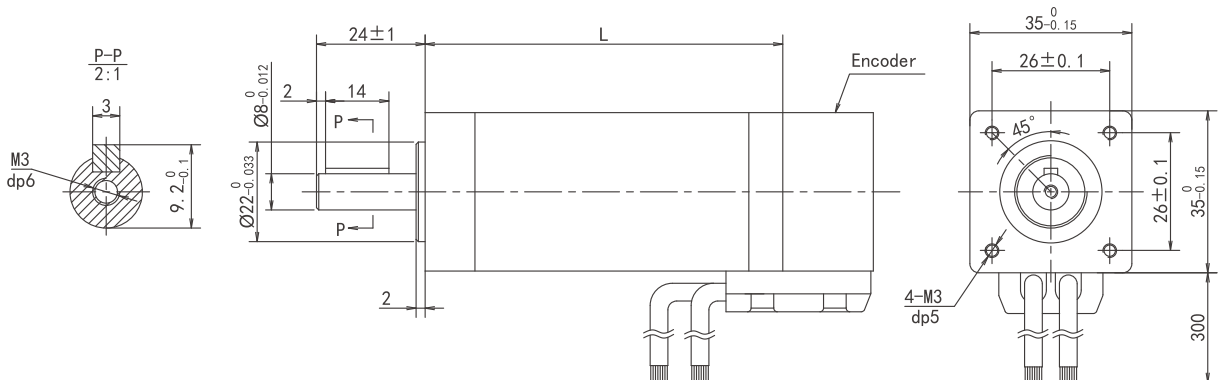
NEMA14 (□35mm) 方形 Square Servo Motor - 14SYNE Low Voltage Series

■ 技术数据 Electrical Specifications

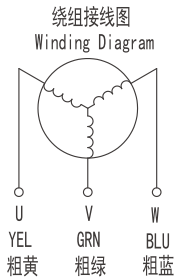
电机型号 Motor Model	14SYNE485030		14SYNE487530	14SYNE481030	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.16	0.24	0.32		
额定功率 Rated Power(W)	50	75	100		
额定电流 Rated Current(A)	1.6	2.4	3.2		
峰值电流 Peak Current(A)	4.8	7.2	9.6		
峰值扭矩 Peak Torque(N.m)	0.48	0.72	0.96		
转子惯量 Rotor Inertia(kg.cm²)	0.025	0.03	0.035		
转矩常数 Torque Constant(N.m/A)	0.26	0.26	0.26		
反电势常数 Torque Constant(V/krpm)	4.2	4.2	4.2		
线间电阻 Line-Line Resistance(Ω)	3.3	2.8	2.2		
线间电感 Line-Line Inductance(mH)	3	2.5	2		
机身长度 Length(mm)	59	69	79		
电机重量 Weight(kg)	0.35	0.45	0.55		
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500,4096/17bit				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



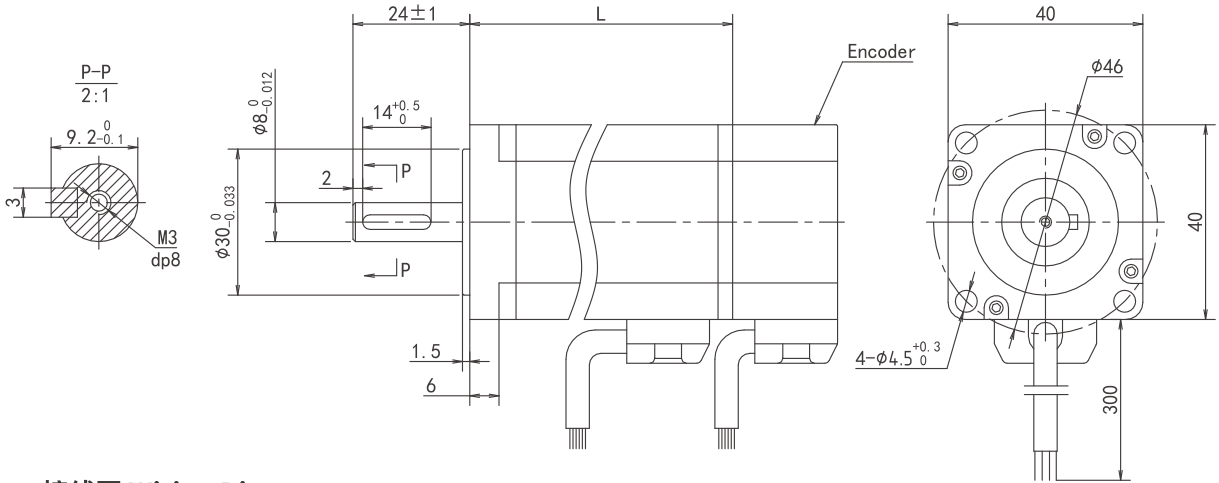
NEMA16 (□40mm) 方形 Square Servo Motor - 16SYTT Low Voltage Series

■ 技术数据 Electrical Specifications

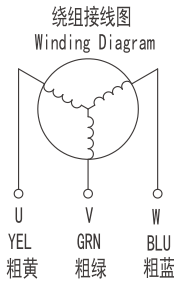
电机型号 Motor Model	16SYTT485030	16SYTT481030	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	10		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.16	0.32	
额定功率 Rated Power(W)	50	100	
额定电流 Rated Current(A)	1.6	3.2	
峰值电流 Peak Current(A)	4.8	9.6	
峰值转矩 Peak Torque(N.m)	0.48	0.96	
转子惯量 Rotor Inertia(kg.cm ²)	0.025	0.035	
转矩常数 Torque Constant(N.m/A)	0.12	0.12	
反电势常数 Torque Constant(V/krpm)	7.1	7.1	
线间电阻 Line-Line Resistance(Ω)	3.5	2.1	
线间电感 Line-Line Inductance(mH)	3.0	2.0	
机身长度 Length(mm)	50	70	
电机重量 Weight(kg)	0.42	0.57	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



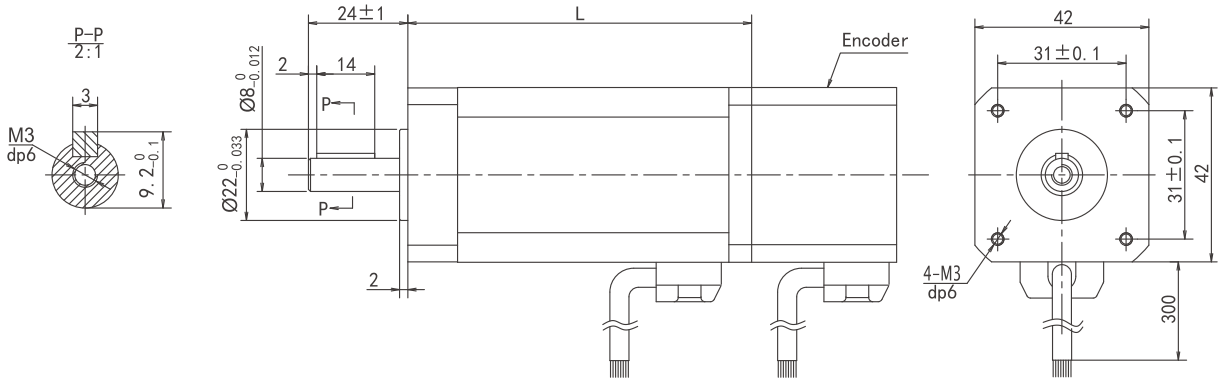
NEMA17(□42mm) 方形 Square Servo Motor - 17NYTT Low Voltage Series

■ 技术数据 Electrical Specifications

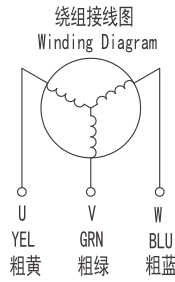
电机型号 Motor Model	17NYTT485030	17NYTT481030	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	10		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.16	0.32	
额定功率 Rated Power(W)	50	100	
额定电流 Rated Current(A)	1.6	3.2	
峰值电流 Peak Current(A)	4.8	9.6	
峰值转矩 Peak Torque(N.m)	0.48	0.96	
转子惯量 Rotor Inertia(kg.cm²)	0.025	0.035	
转矩常数 Torque Constant(N.m/A)	0.12	0.12	
反电势常数 Torque Constant(V/krpm)	7.1	7.1	
线间电阻 Line-Line Resistance(Ω)	3.5	2.1	
线间电感 Line-Line Inductance(mH)	3.0	2.0	
机身长度 Length(mm)	63	83	
电机重量 Weight(kg)	0.45	0.6	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



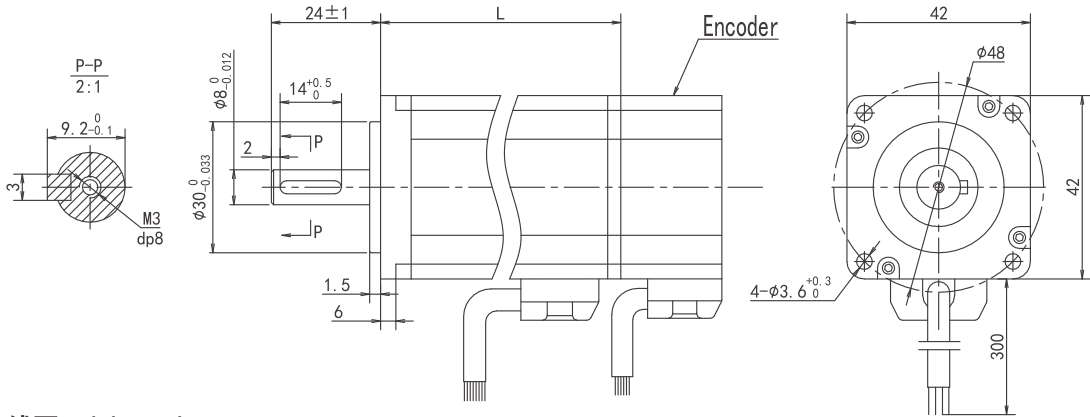
NEMA17(□42mm) 方形 Square Servo Motor - 17SYTT Low Voltage Series

■ 技术数据 Electrical Specifications

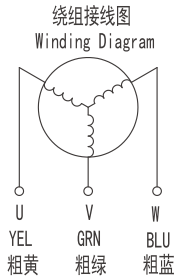
电机型号 Motor Model	17SYTT485030	17SYTT481030	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	10		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.16	0.32	
额定功率 Rated Power(W)	50	100	
额定电流 Rated Current(A)	1.6	3.2	
峰值电流 Peak Current(A)	4.8	9.6	
峰值扭矩 Peak Torque(N.m)	0.48	0.96	
转子惯量 Rotor Inertia(kg.cm²)	0.025	0.035	
转矩常数 Torque Constant(N.m/A)	0.12	0.12	
反电势常数 Torque Constant(V/krpm)	7.1	7.1	
线间电阻 Line-Line Resistance(Ω)	3.5	2.1	
线间电感 Line-Line Inductance(mH)	3.0	2.0	
机身长度 Length(mm)	55	75	
电机重量 Weight(kg)	0.45	0.6	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



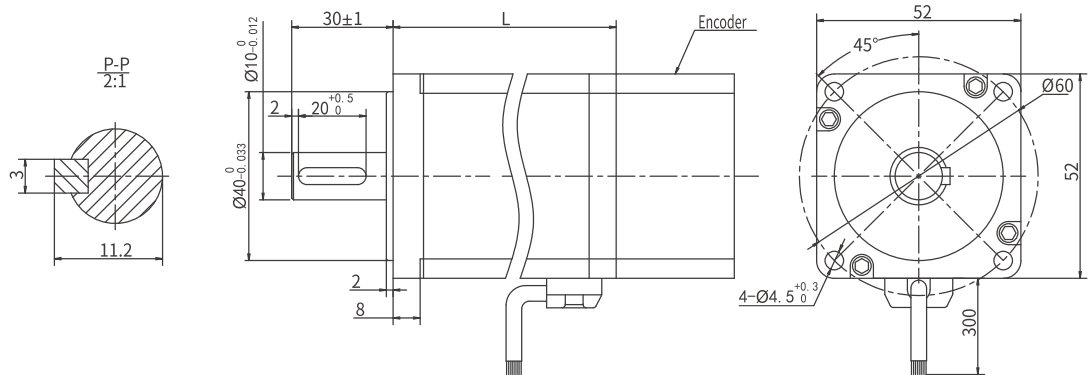
NEMA20(□52mm) 方形 Square Servo Motor - 20SDTT Low Voltage Series

■ 技术数据 Electrical Specifications

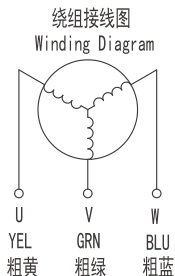
电机型号 Motor Model	20SDTT481030	20SDTT482030	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	10		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.32	0.64	
额定功率 Rated Power(W)	100	200	
额定电流 Rated Current(A)	3.0	6.0	
峰值电流 Peak Current(A)	6.0	12	
峰值转矩 Peak Torque(N.m)	0.64	1.28	
转子惯量 Rotor Inertia(kg.cm²)	0.1	0.18	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	
反电势常数 Torque Constant(V/krpm)	10	10	
线间电阻 Line-Line Resistance(Ω)	2.5	1.5	
线间电感 Line-Line Inductance(mH)	1.6	1.1	
机身长度 Length(mm)	56	66	
电机重量 Weight(kg)	0.7	1.1	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit		

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■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



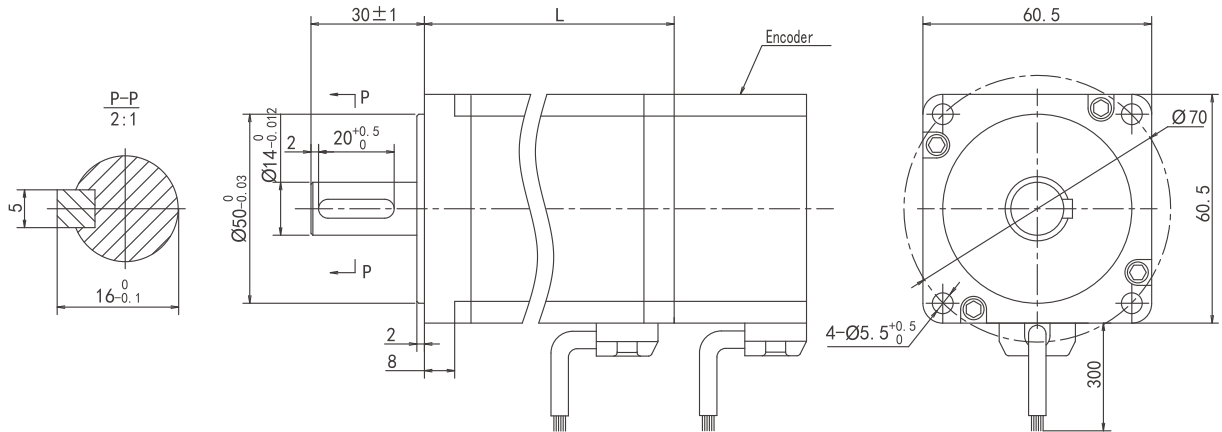
NEMA24(□60mm) 方形 Square Servo Motor - 24SSTT Low Voltage/AC Series

■ 技术数据 Electrical Specifications

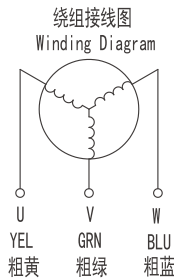
电机型号 Motor Model	24SSTT 482030	24SSTT 484030	24SSTT 2202030	24SSTT 2204030	产品 Product
相数 Number of Phase	3		3		
极数 Number of Poles	10		10		
额定电压 Rated Voltage(VDC/VAC)	48		220		
额定转速 Rated Speed(Rpm)	3000		3000		
额定转矩 Rated Torque(N.m)	0.64	1.27	0.64	1.27	
额定功率 Rated Power(W)	200	400	200	400	
额定电流 Rated Current(A)	5.5	11	1.45	2.9	
峰值电流 Peak Current(A)	16.5	33	4.35	8.7	
峰值扭矩 Peak Torque(N.m)	1.92	3.81	1.92	3.81	
转子惯量 Rotor Inertia(kg.cm²)	0.25	0.45	0.25	0.45	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.44	0.44	
反电势常数 Torque Constant(V/krpm)	10.5	10.5	29	29	
线间电阻 Line-Line Resistance(Ω)	0.2	0.4	10	2.2	
线间电感 Line-Line Inductance(mH)	0.4	0.6	11	5.5	
机身长度 Length(mm)	69	82	69	82	
电机重量 Weight(kg)	0.6	1.0	0.6	1.0	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



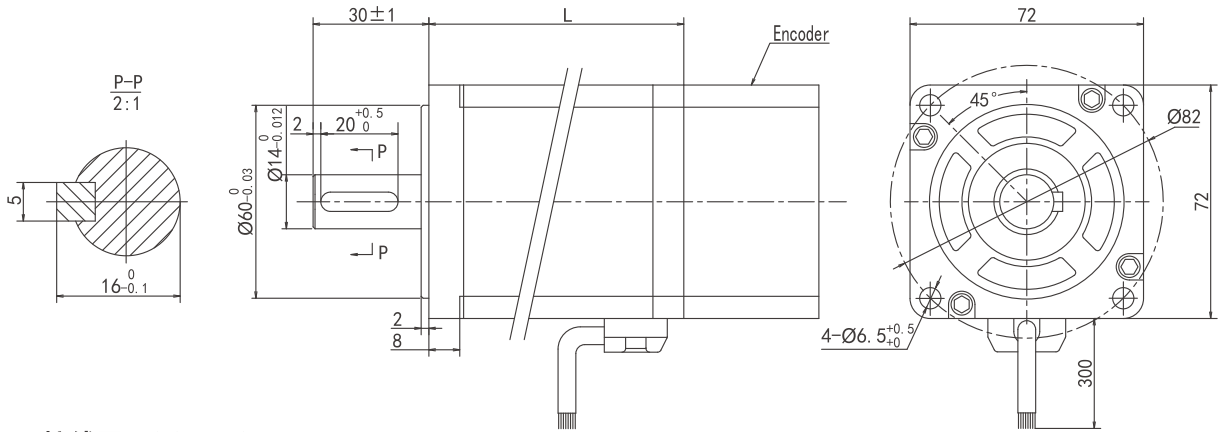
NEMA29(□72mm) 方形 Square Servo Motor - 29SDTT Low Voltage Series

■ 技术数据 Electrical Specifications

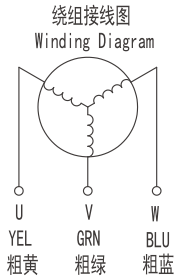
电机型号 Motor Model	29SDTT484030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	10	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	1.27	
额定功率 Rated Power(W)	400	
额定电流 Rated Current(A)	11	
峰值电流 Peak Current(A)	33	
峰值转矩 Peak Torque(N.m)	3.81	
转子惯量 Rotor Inertia(kg.cm²)	0.45	
转矩常数 Torque Constant(N.m/A)	0.11	
反电势常数 Torque Constant(V/krpm)	10.5	
线间电阻 Line-Line Resistance(Ω)	0.26	
线间电感 Line-Line Inductance(mH)	0.52	
机身长度 Length(mm)	79	
电机重量 Weight(kg)	1.0	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



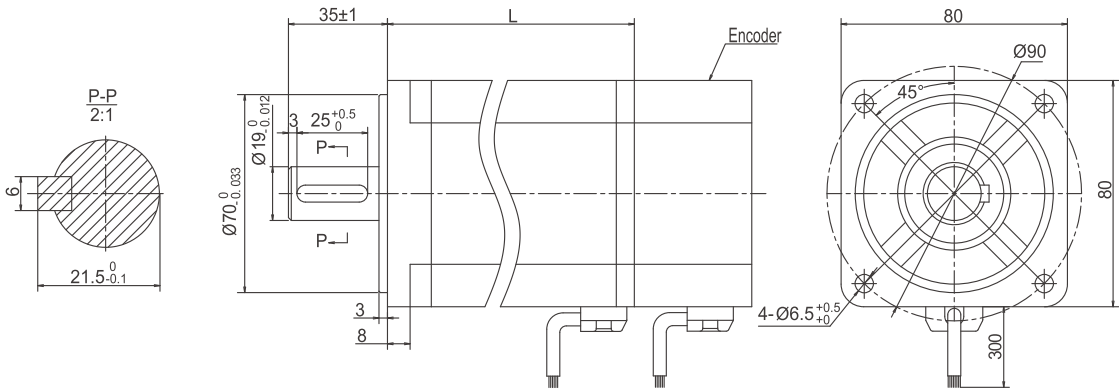
NEMA32(□80mm) 方形 Square Servo Motor - 32SHTT Low Voltage/AC Series

■ 技术数据 Electrical Specifications

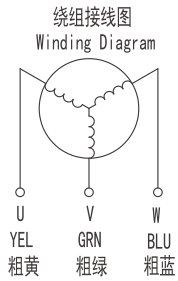
电机型号 Motor Model	32SHTT 485030	32SHTT 487530	32SHTT 2205030	32SHTT 2207530	产品 Product
相数 Number of Phase	3		3		
极数 Number of Poles	10		10		
额定电压 Rated Voltage(VDC/VAC)	48		220		
额定转速 Rated Speed(Rpm)	3000		3000		
额定转矩 Rated Torque(N.m)	1.6	2.39	1.6	2.39	
额定功率 Rated Power(W)	500	750	500	750	
额定电流 Rated Current(A)	14	21	3.3	5.0	
峰值电流 Peak Current(A)	28	42	10	15.0	
峰值转矩 Peak Torque(N.m)	3.2	4.78	4.8	7.1	
转子惯量 Rotor Inertia(kg.cm²)	1.6	2.1	1.6	2.1	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.51	0.51	
反电势常数 Torque Constant(V/krpm)	10.5	10.5	40	42	
线间电阻 Line-Line Resistance(Ω)	0.8	0.4	3	2.2	
线间电感 Line-Line Inductance(mH)	0.7	0.3	6	9	
机身长度 Length(mm)	81	96	81	96	
电机重量 Weight(kg)	2.04	3.2	2.2	3.2	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



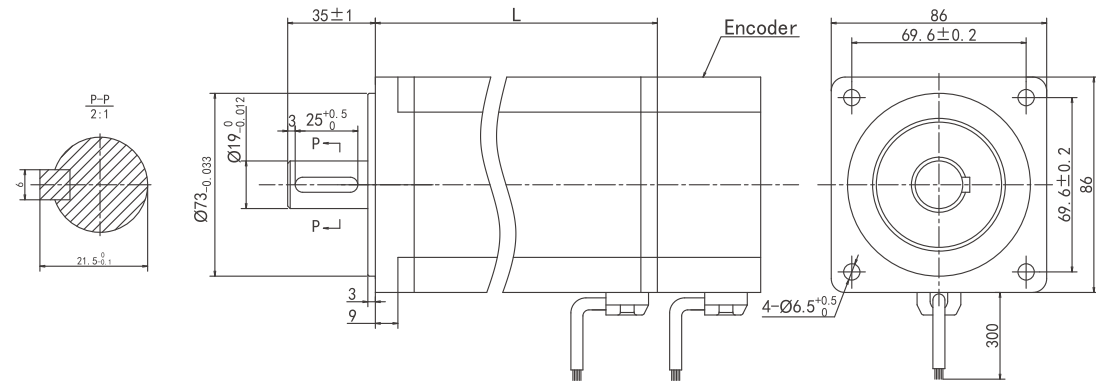
NEMA34(□86mm) 方形 Square Servo Motor - 34SSTE Low Voltage/AC Series

■ 技术数据 Electrical Specifications

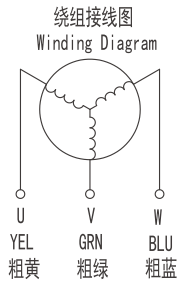
电机型号 Motor Model	34SSTE 483830	34SSTE 487530	34SSTE 2203830	34SSTE 2207530	34SSTE 2201130	产品 Product
相数 Number of Phase	3		3			
极数 Number of Poles	8		8			
额定电压 Rated Voltage(VDC/VAC)	48		220			
额定转速 Rated Speed(Rpm)	3000		3000			
额定转矩 Rated Torque(N.m)	1.2	2.4	1.2	2.4	3.6	
额定功率 Rated Power(W)	380	750	380	750	1130	
额定电流 Rated Current(A)	10.5	21	2.8	5.6	8.4	
峰值电流 Peak Current(A)	21	42	8.4	16.8	25.2	
峰值转矩 Peak Torque(N.m)	2.4	4.8	3.6	7.2	10.8	
转子惯量 Rotor Inertia(kg.cm²)	0.8	1.1	0.8	1.1	1.4	
转矩常数 Torque Constant(N.m/A)	0.12	0.12	0.42	0.42	0.42	
反电势常数 Torque Constant(V/krpm)	11	11	35	35	35	
线间电阻 Line-Line Resistance(Ω)	0.2	0.15	0.4	0.6	0.8	
线间电感 Line-Line Inductance(mH)	0.2	0.1	0.3	0.5	0.7	
机身长度 Length(mm)	86	111	86	111	136	
电机重量 Weight(kg)	1.8	2.4	1.8	2.4	3.0	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit					

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



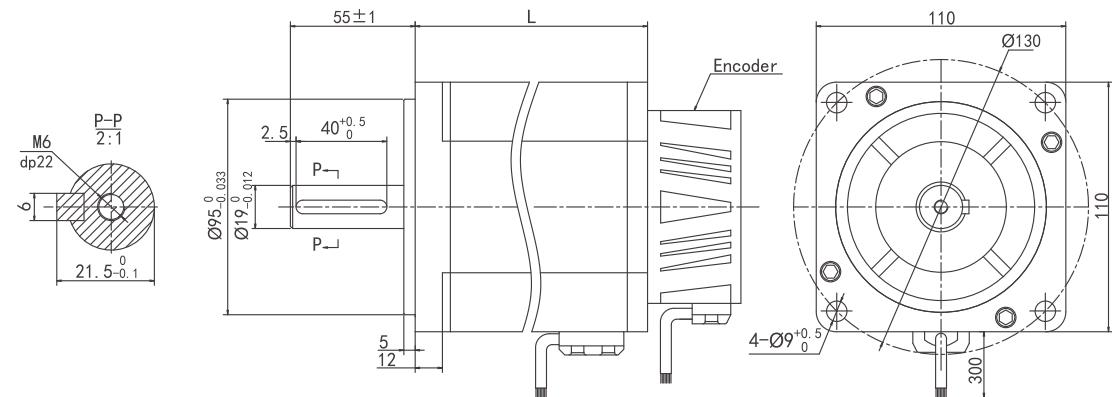
NEMA43(□110mm) 方形 Square Servo Motor - 43SSTE Low Voltage/AC Series

■ 技术数据 Electrical Specifications

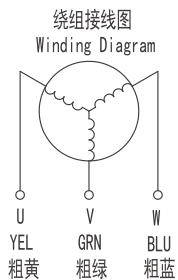
电机型号 Motor Model	43SSTE 486030	43SSTE 481230	43SSTE 2206030	43SSTE 2201230	43SSTE 2201530	43SSTE 2201830	产品 Product
相数 Number of Phase	3		3				
极数 Number of Poles	8		8				
额定电压 Rated Voltage(VAC)	48		220				
额定转速 Rated Speed(Rpm)	3000		3000				
额定转矩 Rated Torque(N.m)	2	4	2	4	5	6	
额定功率 Rated Power(W)	600	1200	600	1200	1500	1800	
额定电流 Rated Current(A)	17	34	2.5	5	5.5	6	
峰值电流 Peak Current(A)	34	68	7.5	15	16.5	18	
峰值转矩 Peak Torque(N.m)	6	12	6	12	15	18	
转子惯量 Rotor Inertia(kg.cm²)	3.1	5.4	3.1	5.4	6.4	7.6	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.8	0.8	0.9	1.0	
反电势常数 Torque Constant(V/krpm)	9	9	56	54	56	60	
线间电阻 Line-Line Resistance(Ω)	0.4	0.6	3.6	1.09	0.9	0.81	
线间电感 Line-Line Inductance(mH)	0.3	0.5	8.32	3.3	2.95	2.59	
机身长度 Length(mm)	102	132	102	132	147	162	
电机重量 Weight(kg)	4.5	5.5	4.5	5.5	5.5	6.7	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit						

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer's requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



NEMA51(□130mm) 方形 Square Servo Motor - 51SSTE Low Voltage/AC Series

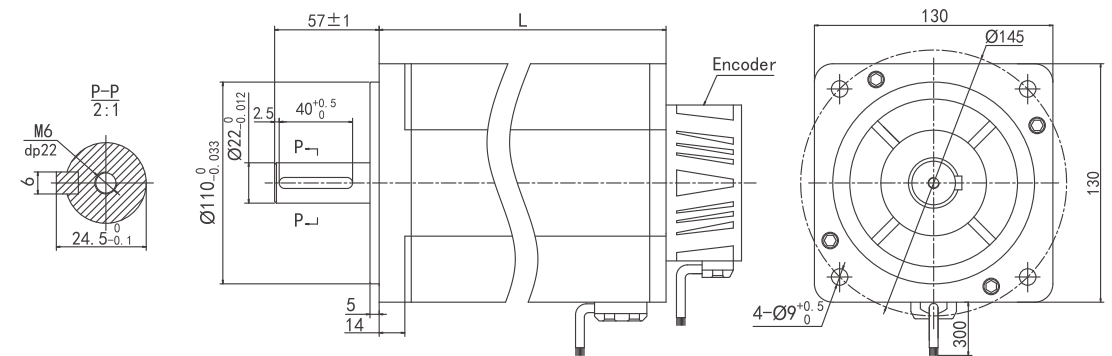
■ 技术数据 Electrical Specifications

电机型号 Motor Model	51SSTE 481025	51SSTE 2201025	51SSTE 2201325	51SSTE 2201625	51SSTE 2202025	51SSTE 2202625	产品 Product
相数 Number of Phase	3	3					
极数 Number of Poles	8	8					
额定电压 Rated Voltage(VAC)	48	220					
额定转速 Rated Speed(Rpm)	2500	2500					
额定转矩 Rated Torque(N.m)	4	4	5	6.4	7.7	10	
额定功率 Rated Power(W)	1000	1000	1300	1670	2000	2600	
额定电流 Rated Current(A)	28	7.5	8.5	11.2	13	17	
峰值电流 Peak Current(A)	56	22.5	25.5	33.6	39	51	
峰值扭矩 Peak Torque(N.m)	8	12	15	19.2	23.1	30	
转子惯量 Rotor Inertia(kg.cm²)	7.6	7.6	8.6	9.8	12.4	16.2	
转矩常数 Torque Constant(N.m/A)	0.14	0.59	0.58	0.59	0.59	0.58	
反电势常数 Torque Constant(V/krpm)	12	53	52	53	53	52	
线间电阻 Line-Line Resistance(Ω)	0.6	2.1	1.8	1.6	1.2	0.7	
线间电感 Line-Line Inductance(mH)	0.5	5.5	4.9	4.1	3.4	2.4	
机身长度 Length(mm)	122	122	133	145	156	179	
电机重量 Weight(kg)	7.2	7.2	8.2	9.4	11.5	14.8	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit						

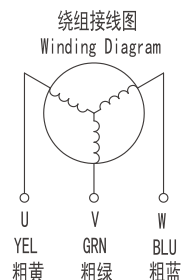


*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer's requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



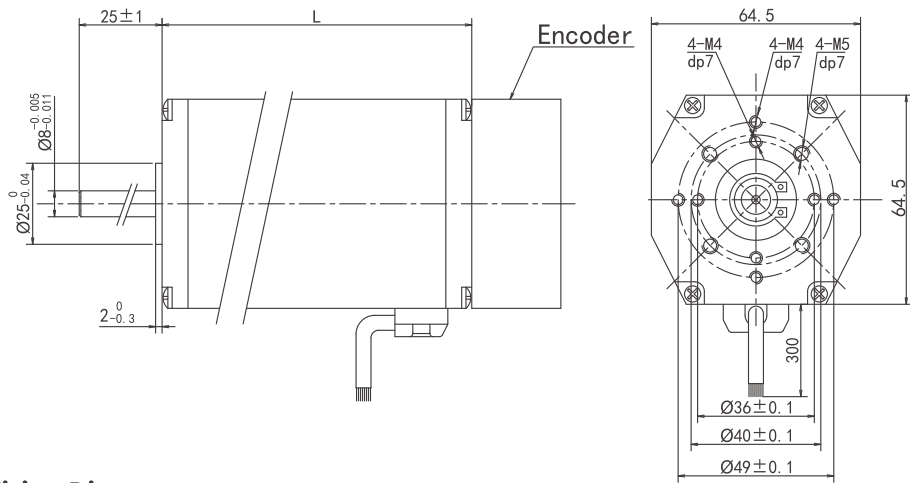
SIZE65(○65mm) 八角形 Octagonal Shape Servo Motor - 65SSTT Low Voltage Series

■ 技术数据 Electrical Specifications

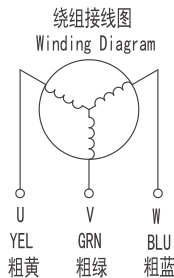
电机型号 Motor Model	65SSTT482030	65SSTT484030	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	10		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.64	1.27	
额定功率 Rated Power(W)	200	400	
额定电流 Rated Current(A)	5.5	11	
峰值电流 Peak Current(A)	16.5	33	
峰值转矩 Peak Torque(N.m)	1.92	3.81	
转子惯量 Rotor Inertia(kg.cm²)	0.25	0.45	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	
反电势常数 Torque Constant(V/krpm)	10.5	10.5	
线间电阻 Line-Line Resistance(Ω)	0.2	0.4	
线间电感 Line-Line Inductance(mH)	0.4	0.6	
机身长度 Length(mm)	77	91	
电机重量 Weight(kg)	0.6	1.0	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit, 23bit		

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



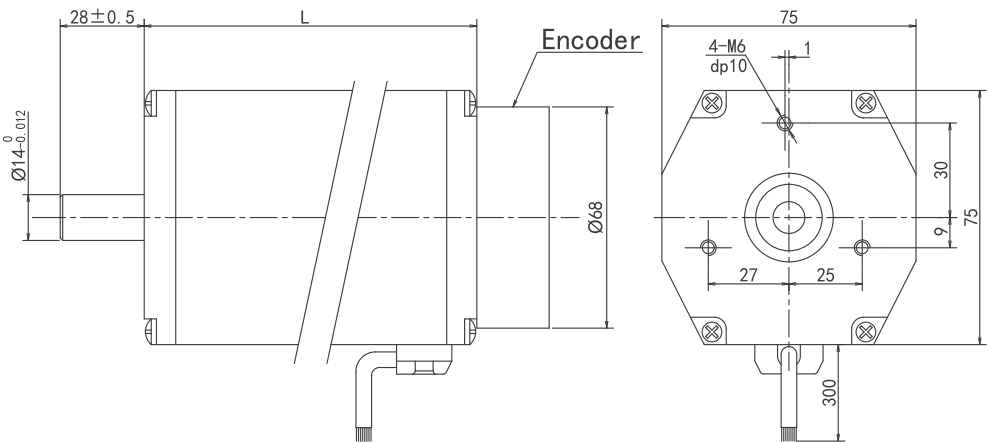
SIZE75(○75mm) 八角形 Octagonal Shape Servo Motor - 75SDTT Low Voltage Series

■ 技术数据 Electrical Specifications

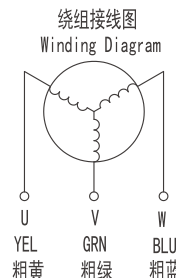
电机型号 Motor Model	75SDTT484030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	10	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	1.27	
额定功率 Rated Power(W)	400	
额定电流 Rated Current(A)	11	
峰值电流 Peak Current(A)	33	
峰值转矩 Peak Torque(N.m)	3.81	
转子惯量 Rotor Inertia(kg.cm ²)	0.45	
转矩常数 Torque Constant(N.m/A)	0.11	
反电势常数 Torque Constant(V/krpm)	10.5	
线间电阻 Line-Line Resistance(Ω)	0.26	
线间电感 Line-Line Inductance(mH)	0.52	
机身长度 Length(mm)	85	
电机重量 Weight(kg)	1.0	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



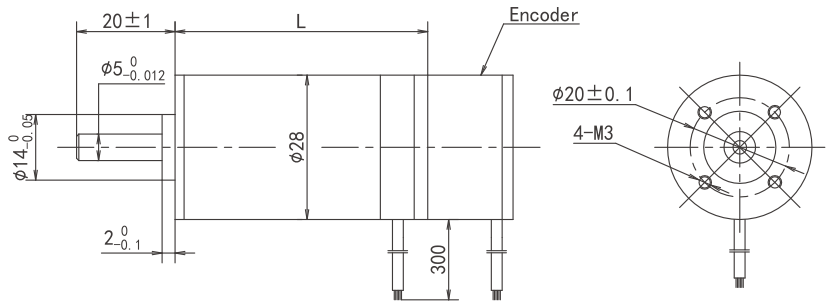
SIZE28 (○28mm) 圆形 Circular Servo Motor - 28RYNE Low Voltage Series

■ 技术数据 Electrical Specifications

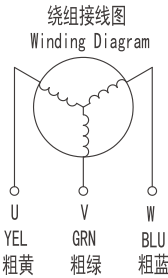
电机型号 Motor Model	28RYNE482530	28RYNE483830	28RYNE485030	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.08	0.12	0.16	
额定功率 Rated Power(W)	25	38	50	
额定电流 Rated Current(A)	0.9	1.3	1.8	
峰值电流 Peak Current(A)	2.7	3.9	5.4	
峰值扭矩 Peak Torque(N.m)	0.24	0.36	0.48	
转子惯量 Rotor Inertia(kg.cm²)	0.018	0.023	0.028	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.11	
反电势常数 Torque Constant(V/krpm)	3.5	3.5	3.5	
线间电阻 Line-Line Resistance(Ω)	3.3	2.8	2.3	
线间电感 Line-Line Inductance(mH)	2.3	1.8	1.3	
机身长度 Length(mm)	49	59	69	
电机重量 Weight(kg)	0.4	0.6	0.8	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500			

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



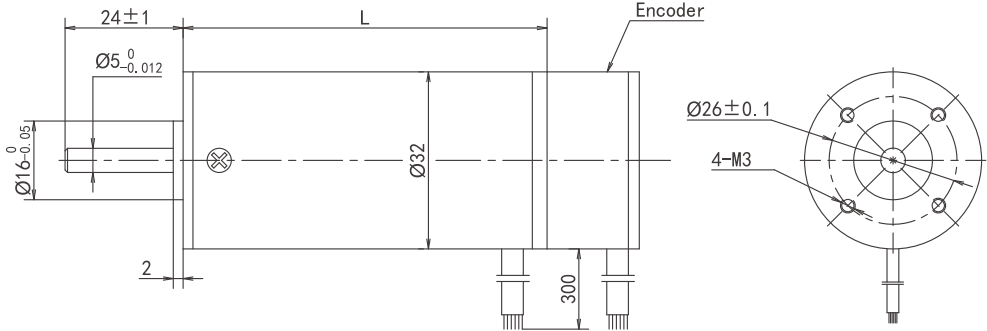
SIZE32 (○32mm) 圆形 Circular Servo Motor - 32RYNE Low Voltage Series

■ 技术数据 Electrical Specifications

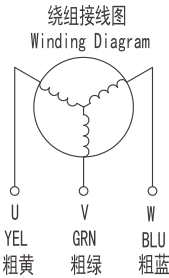
电机型号 Motor Model	32RYNE482530		32RYNE483830	32RYNE485030	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	8				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.08	0.12	0.16		
额定功率 Rated Power(W)	25	38	50		
额定电流 Rated Current(A)	0.9	1.3	1.8		
峰值电流 Peak Current(A)	2.7	3.9	5.4		
峰值扭矩 Peak Torque(N.m)	0.24	0.36	0.48		
转子惯量 Rotor Inertia(kg.cm²)	0.018	0.023	0.028		
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.11		
反电势常数 Torque Constant(V/krpm)	3.5	3.5	3.5		
线间电阻 Line-Line Resistance(Ω)	3.3	2.8	2.3		
线间电感 Line-Line Inductance(mH)	2.3	1.8	1.3		
机身长度 Length(mm)	52	62	72		
电机重量 Weight(kg)	0.4	0.6	0.8		
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500,4096/17bit				

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



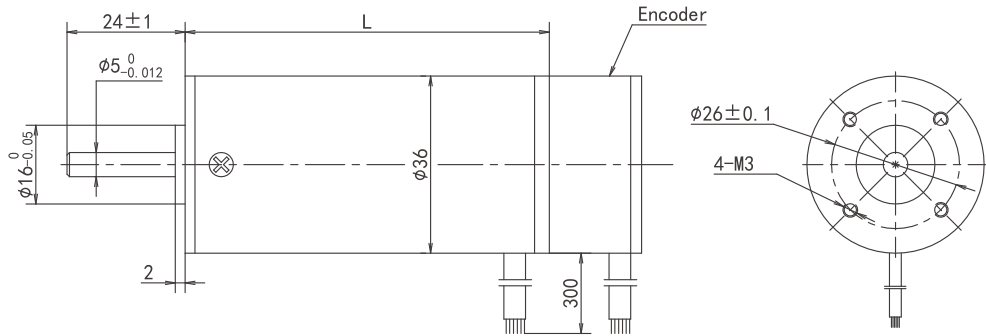
SIZE36 (○36mm) 圆形 Circular Servo Motor - 36RYSE Low Voltage Series

■ 技术数据 Electrical Specifications

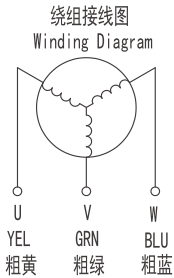
电机型号 Motor Model	36RYSE243730	36RYSE245630	36RYSE247430	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.12	0.18	0.24	
额定功率 Rated Power(W)	37	56	74	
额定电流 Rated Current(A)	2.3	3.5	4.6	
峰值电流 Peak Current(A)	6.9	10.5	13.8	
峰值转矩 Peak Torque(N.m)	0.36	0.54	0.72	
转子惯量 Rotor Inertia(kg.cm²)	0.025	0.035	0.045	
转矩常数 Torque Constant(N.m/A)	0.05	0.05	0.05	
反电势常数 Torque Constant(V/krpm)	4.6	4.6	4.6	
线间电阻 Line-Line Resistance(Ω)	1	3	2.2	
线间电感 Line-Line Inductance(mH)	0.9	6	9	
机身长度 Length(mm)	54	64	74	
电机重量 Weight(kg)	0.3	0.5	0.7	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit			

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)

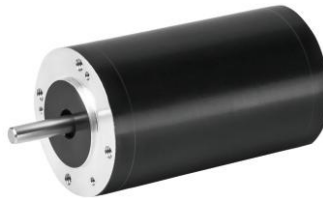


■ 接线图 Wiring Diagram



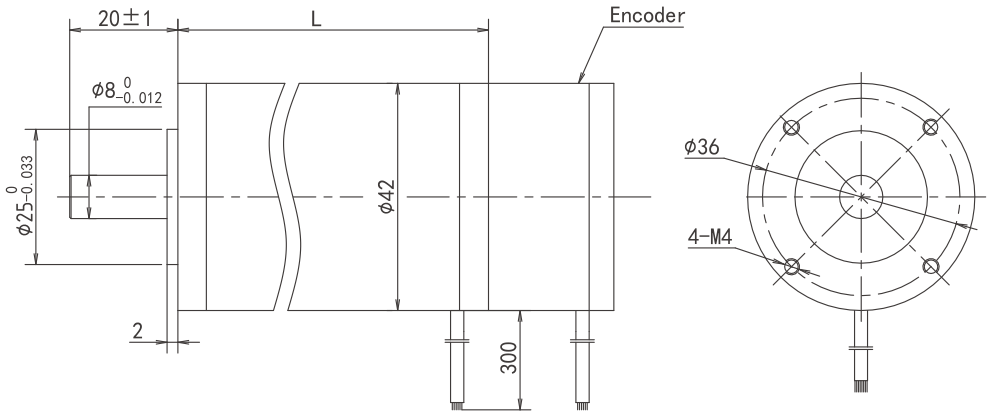
SIZE42 (○42mm) 圆形 Circular Servo Motor - 42SYTT Low Voltage Series

■ 技术数据 Electrical Specifications

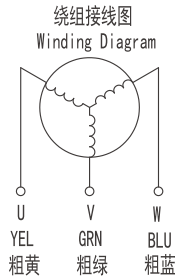
电机型号 Motor Model	42SYTT485030	42SYTT481030	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	10		
额定电压 Rated Voltage(VDC/VAC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.16	0.32	
额定功率 Rated Power(W)	50	100	
额定电流 Rated Current(A)	1.6	3.2	
峰值电流 Peak Current(A)	4.8	9.6	
峰值转矩 Peak Torque(N.m)	0.48	0.96	
转子惯量 Rotor Inertia(kg.cm²)	0.025	0.035	
转矩常数 Torque Constant(N.m/A)	0.12	0.12	
反电势常数 Torque Constant(V/krpm)	7.1	7.1	
线间电阻 Line-Line Resistance(Ω)	3.5	2.1	
线间电感 Line-Line Inductance(mH)	3.0	2.0	
机身长度 Length(mm)	52	72	
电机重量 Weight(kg)	0.7	0.93	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)

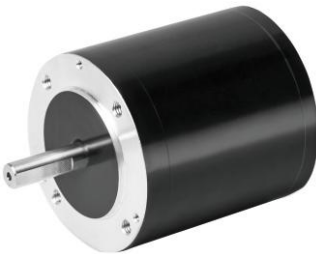


■ 接线图 Wiring Diagram



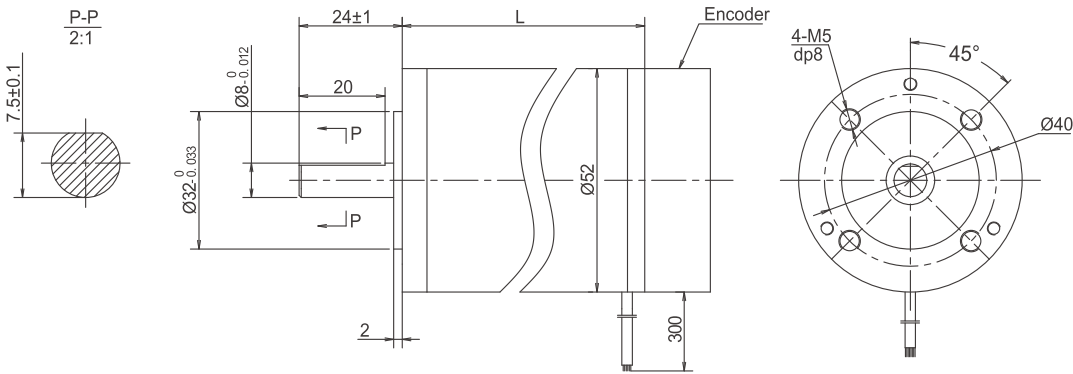
SIZE52 (○52mm) 圆形 Circular Servo Motor - 52SDTT Low Voltage Series

■ 技术数据 Electrical Specifications

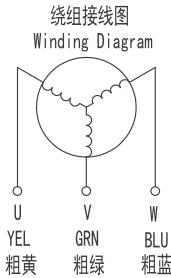
电机型号 Motor Model	52SDTT481030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	10	
额定电压 Rated Voltage(VDC/VAC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	0.32	
额定功率 Rated Power(W)	100	
额定电流 Rated Current(A)	2.97	
峰值电流 Peak Current(A)	3.6	
峰值扭矩 Peak Torque(N.m)	0.96	
转子惯量 Rotor Inertia(kg.cm²)	0.059	
转矩常数 Torque Constant(N.m/A)	0.107	
反电势常数 Torque Constant(V/krpm)	11.2	
线间电阻 Line-Line Resistance(Ω)	2.5	
线间电感 Line-Line Inductance(mH)	1.6	
机身长度 Length(mm)	56	
电机重量 Weight(kg)	0.93	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)

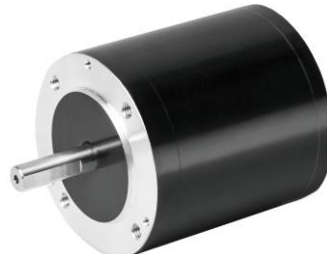


■ 接线图 Wiring Diagram



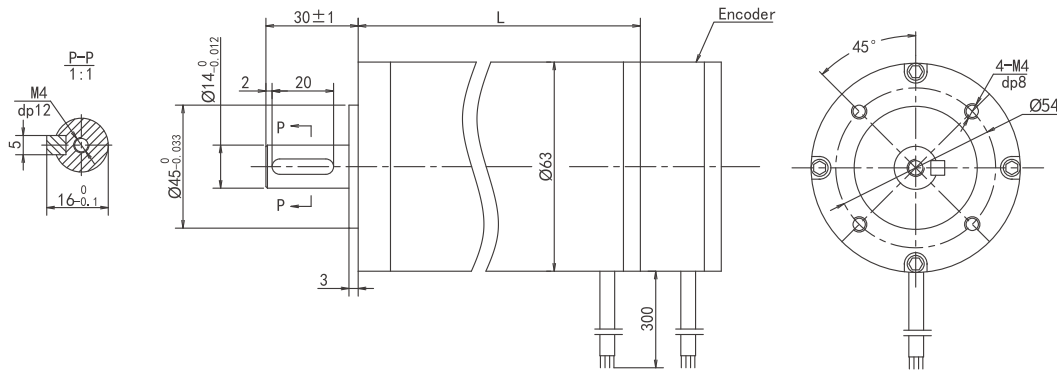
SIZE63 (○63mm) 圆形 Circular Servo Motor - 63SSTT Low Voltage/AC Series

■ 技术数据 Electrical Specifications

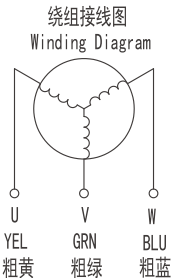
电机型号 Motor Model	63SSTT 482030	63SSTT 484030	63SSTT 2202030	63SSTT 2204030	产品 Product
相数 Number of Phase	3		3		
极数 Number of Poles	10		10		
额定电压 Rated Voltage(VDC/VAC)	48		220		
额定转速 Rated Speed(Rpm)	3000		3000		
额定转矩 Rated Torque(N.m)	0.64	1.27	0.64	1.27	
额定功率 Rated Power(W)	200	400	200	400	
额定电流 Rated Current(A)	5.5	11	1.45	2.9	
峰值电流 Peak Current(A)	16.5	33	4.35	8.7	
峰值扭矩 Peak Torque(N.m)	1.92	3.81	1.92	3.81	
转子惯量 Rotor Inertia(kg.cm²)	0.25	0.45	0.25	0.45	
转矩常数 Torque Constant(N.m/A)	0.11	0.11	0.44	0.44	
反电势常数 Torque Constant(V/krpm)	10.5	10.5	29	29	
线间电阻 Line-Line Resistance(Ω)	0.2	0.4	10	2.2	
线间电感 Line-Line Inductance(mH)	0.4	0.6	11	5.5	
机身长度 Length(mm)	68	82	68	82	
电机重量 Weight(kg)	0.6	1.0	0.6	1.0	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



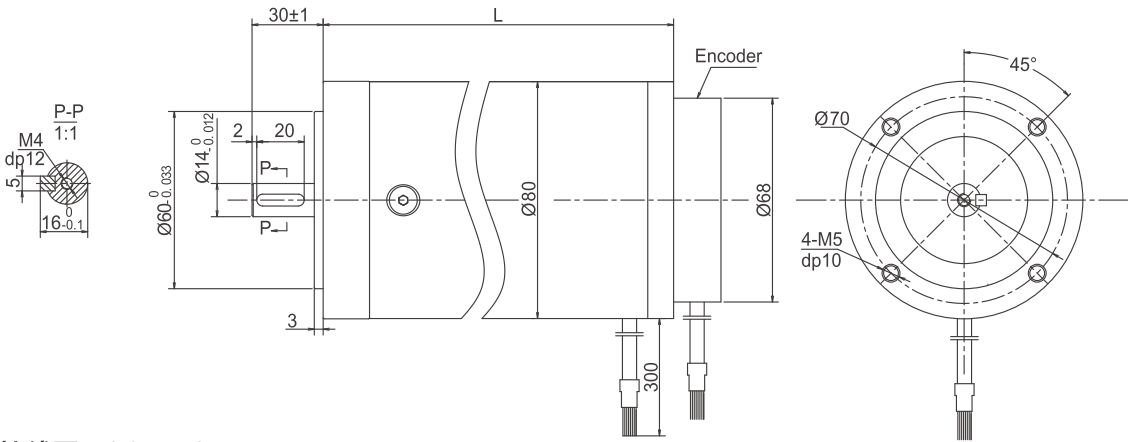
SIZE80 (○80mm) 圆形 Circular Servo Motor - 80SHTT Low Voltage/AC Series

■ 技术数据 Electrical Specifications

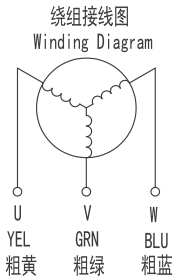
电机型号 Motor Model	80SHTT485030	80SHTT2205030	80SHTT2207530	产品 Product
相数 Number of Phase	3	3		
极数 Number of Poles	10	10		
额定电压 Rated Voltage(VDC/VAC)	48	220		
额定转速 Rated Speed(Rpm)	3000	3000		
额定转矩 Rated Torque(N.m)	1.6	1.6	2.39	
额定功率 Rated Power(W)	500	500	750	
额定电流 Rated Current(A)	14	3.3	5.0	
峰值电流 Peak Current(A)	42	10	15.0	
峰值扭矩 Peak Torque(N.m)	4.8	4.8	7.1	
转子惯量 Rotor Inertia(kg.cm²)	1.6	1.6	2.1	
转矩常数 Torque Constant(N.m/A)	0.11	0.51	0.51	
反电势常数 Torque Constant(V/krpm)	10.47	40	42	
线间电阻 Line-Line Resistance(Ω)	1	3	2.2	
线间电感 Line-Line Inductance(mH)	0.9	6	9	
机身长度 Length(mm)	87	87	102	
电机重量 Weight(kg)	2.04	2.2	3.2	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit			

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer' s requirements.

■ 外形图 Dimensions(单位Unit: mm)



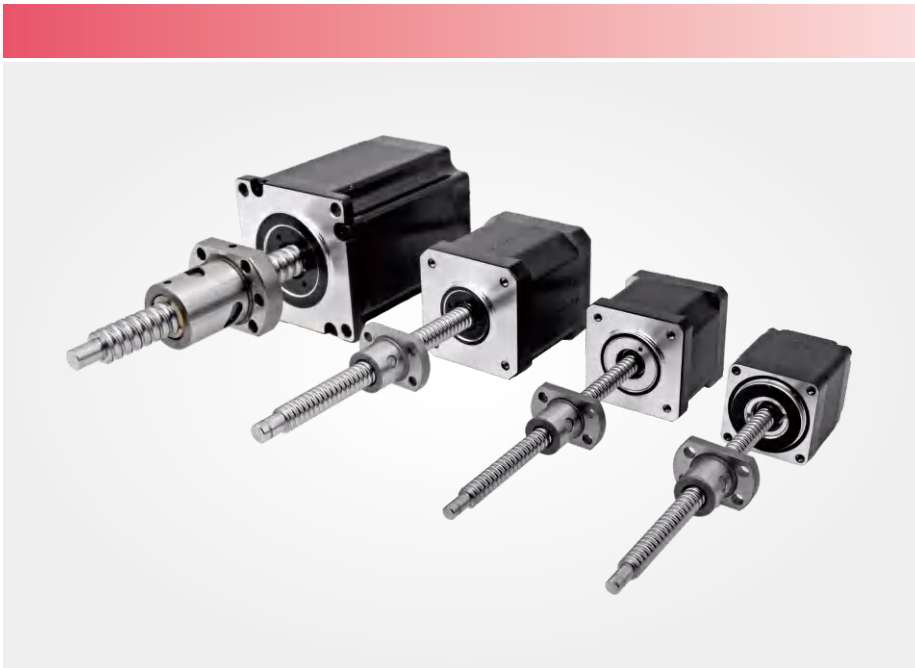
■ 接线图 Wiring Diagram



BALL SCREW LINEAR SERVO MOTOR SERIES

滚珠丝杆直线伺服电机系列

10



滚珠丝杆直线伺服电机
Ball screw linear servo motor

滚珠丝杆直线伺服电机是一种将旋转运动转换为直线运动的执行器。它由滚珠丝杆、伺服电机和联轴器组成。具有速度快、加速度大；定位精度高；传动效率高；结构紧凑、体积小；运行平稳、噪音低等特点。广泛应用于数控机床、机器人、电子设备制造、医疗器械等领域。

The ball screw linear servo motor is an actuator that converts rotational motion into linear motion. It consists of a ball screw, a servo motor, and a coupling. Has fast speed and high acceleration; High positioning accuracy; High transmission efficiency; Compact structure and small volume; Features such as smooth operation and low noise. Widely used in fields such as CNC machine tools, robots, electronic equipment manufacturing, medical devices, etc.

滚珠丝杆直线伺服电机 Ball screw linear servo motor

NEMA10 (□25mm) Ball screw linear servo motor - 10SYNE Low Voltage Series

■ 技术数据 Electrical Specifications

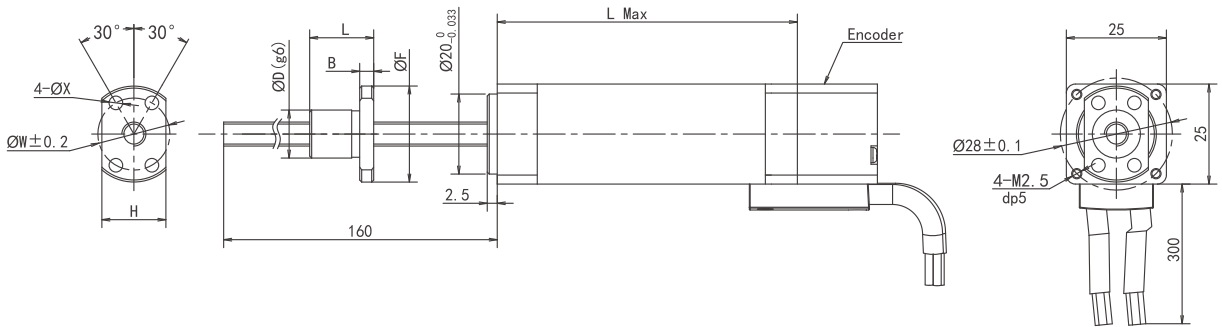
电机型号 Motor Model	10SYNE482030	10SYNE483030	10SYNE484030	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.06	0.09	0.12	
额定功率 Rated Power(W)	20	30	40	
额定电流 Rated Current(A)	0.7	1.05	1.4	
机身长度L Length(mm)	55	65	75	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500,4096,17bit			

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

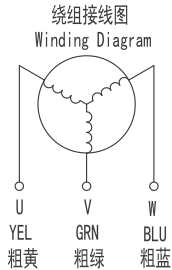
■ 滚珠丝杆技术参数 Ballscrew Specifications

丝杆型号	丝杆直径	丝杆导程	钢珠直径	循环数	额定负载 N		螺母尺寸						
	d	P	Da	n	动负载 Ca	静负载 Coa	D	F	B	L	W	H	X
0601	6	1	0.8	3	560	950	12	24	3.5	15	18	16	3.4
0602	6	2	1.2	3	750	1200	12	24	3.5	16	18	16	3.4

■ 外形图 Dimensions(单位Unit: mm)



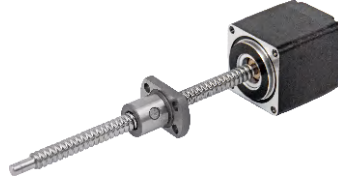
■ 接线图 Wiring Diagram



滚珠丝杆直线伺服电机 Ball screw linear servo motor

NEMA11 (□28mm) Ball screw linear servo motor - 11SYNE Low Voltage Series

■ 技术数据 Electrical Specifications

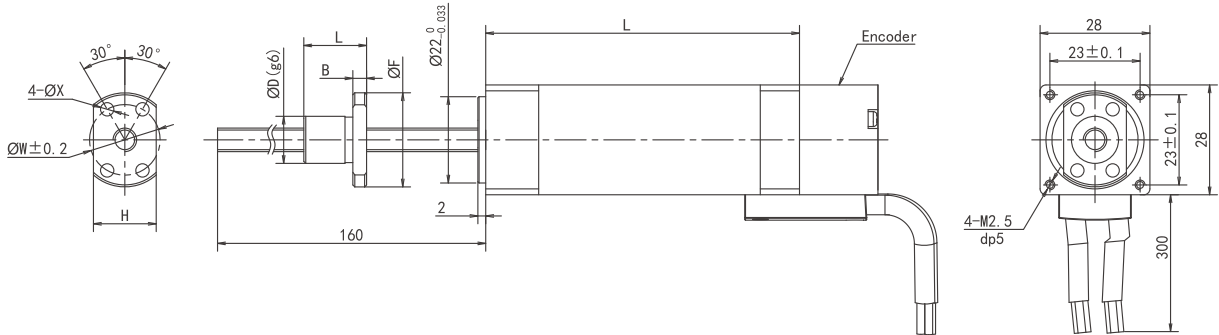
电机型号 Motor Model	11SYNE482530	11SYNE483830	11SYNE485030	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.08	0.12	0.16	
额定功率 Rated Power(W)	25	38	50	
额定电流 Rated Current(A)	0.9	1.3	1.8	
机身长度L Length(mm)	60	70	80	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500,4096,17bit			

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

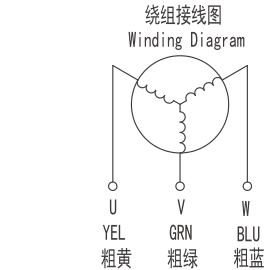
■ 滚珠丝杆技术参数 Ballscrew Specifications

丝杆型号	丝杆直径	丝杆导程	钢珠直径	循环数	额定负载 N		螺母尺寸						
	d	P	Da	n	动负载 Ca	静负载 Coa	D	F	B	L	W	H	X
0601	6	1	0.8	3	560	950	12	24	3.5	15	18	16	3.4
0602	6	2	1.2	3	750	1200	12	24	3.5	16	18	16	3.4

■ 外形图 Dimensions(单位Unit: mm)



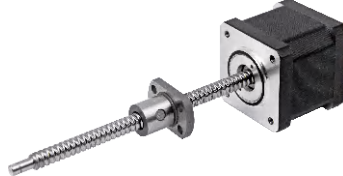
■ 接线图 Wiring Diagram



滚珠丝杆直线伺服电机 Ball screw linear servo motor

NEMA14 (□35mm) Ball screw linear servo motor -14SYNE Low Voltage Series

■ 技术数据 Electrical Specifications

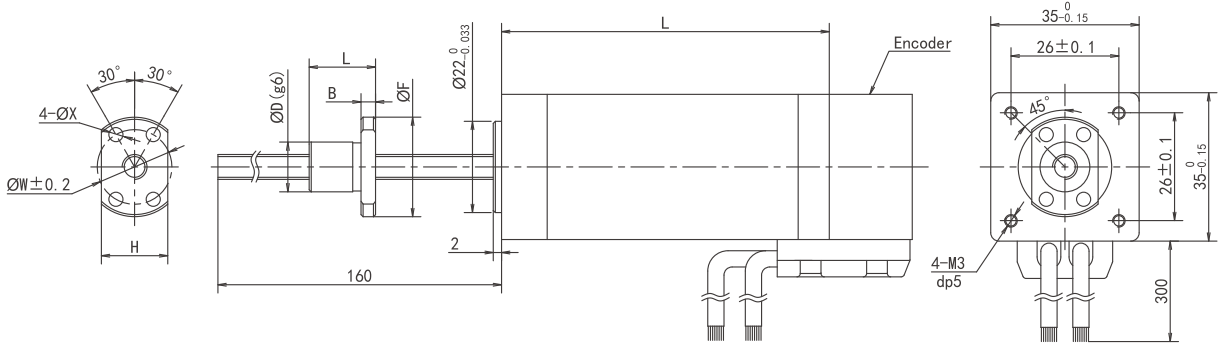
电机型号 Motor Model	14SYNE483730	14SYNE485630	14SYNE487430	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	8			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	3000			
额定转矩 Rated Torque(N.m)	0.12	0.18	0.24	
额定功率 Rated Power(W)	37	56	74	
额定电流 Rated Current(A)	1.2	1.8	2.4	
机身长度L Length(mm)	59	69	79	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500,4096,17bit			

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

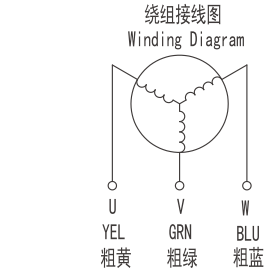
■ 滚珠丝杆技术参数 Ballscrew Specifications

丝杆型号	丝杆直径	丝杆导程	钢珠直径	循环数	额定负载 N		螺母尺寸						
	d	P	Da	n	动负载 Ca	静负载 Coa	D	F	B	L	W	H	X
0801	8	1	0.8	3	650	1300	14	27	3.5	16	21	18	3.4
0802		2	1.2		1300	2300	14	27	4	16	21	18	
0802.5		2.5	1.2		1345	2694	16	29	4	26	23	20	
0804		4	1.5875		1714	3480	18	31	4	28	27	20	
0805		5	1.5875		1700	3458	18	31	4	28	27	20	

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



滚珠丝杆直线伺服电机 Ball screw linear servo motor

NEMA16 (□40mm) Ball screw linear servo motor - 16SYTT Low Voltage Series

■ 技术数据 Electrical Specifications

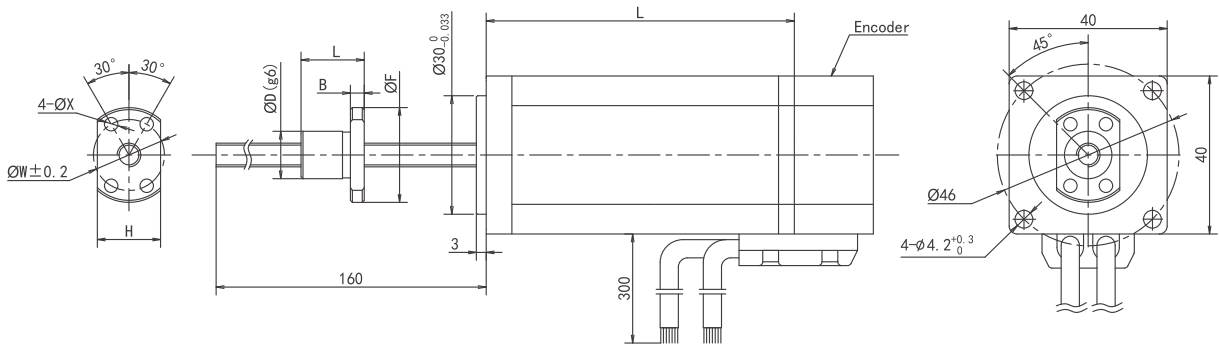
电机型号 Motor Model	16SYTT485030	16SYTT481030	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	10		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.16	0.32	
额定功率 Rated Power(W)	50	100	
额定电流 Rated Current(A)	1.6	3.2	
机身长度L Length(mm)	58	78	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

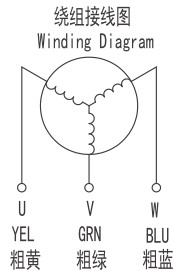
■ 滚珠丝杆技术参数 Ballscrew Specifications

丝杆型号	丝杆直径	丝杆导程	钢珠直径	循环数	额定负载 N		螺母尺寸						
	d	P	Da	n	动负载 Ca	静负载 Coa	D	F	B	L	W	H	X
0801	8	1	0.8	3	650	1300	14	27	3.5	16	21	18	3.4
0802		2	1.2		1300	2300	14	27	4	16	21	18	
0802.5		2.5	1.2		1345	2694	16	29	4	26	23	20	
0804		4	1.5875		1714	3480	18	31	4	28	27	20	
0805		5	1.5875		1700	3458	18	31	4	28	27	20	

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



滚珠丝杆直线伺服电机 Ball screw linear servo motor

NEMA17 (□42mm) Ball screw linear servo motor - 17NYTT Low Voltage Series

■ 技术数据 Electrical Specifications

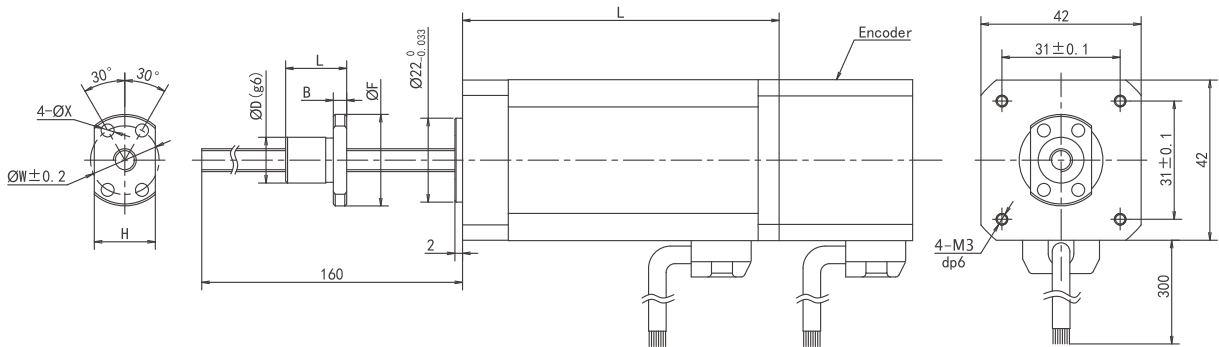
电机型号 Motor Model	17NYTT485030		17NYTT481030	产品 Product
相数 Number of Phase			3	
极数 Number of Poles			10	
额定电压 Rated Voltage(VDC)			48	
额定转速 Rated Speed(Rpm)			3000	
额定转矩 Rated Torque(N.m)	0.16		0.32	
额定功率 Rated Power(W)	50		100	
额定电流 Rated Current(A)	1.6		3.2	
机身长度L Length(mm)	63		83	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit			

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

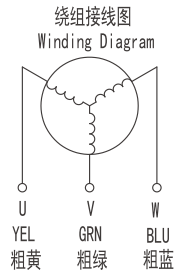
■ 滚珠丝杆技术参数 Ballscrew Specifications

丝杆型号	丝杆直径	丝杆导程	钢珠直径	循环数	额定负载 N		螺母尺寸						
	d	P	Da	n	动负载 Ca	静负载 Coa	D	F	B	L	W	H	X
0801	8	1	0.8	3	650	1300	14	27	3.5	16	21	18	3.4
0802		2	1.2		1300	2300	14	27	4	16	21	18	
0802.5		2.5	1.2		1345	2694	16	29	4	26	23	20	
0804		4	1.5875		1714	3480	18	31	4	28	27	20	
0805		5	1.5875		1700	3458	18	31	4	28	27	20	

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



滚珠丝杆直线伺服电机 Ball screw linear servo motor

NEMA24(□60mm) Ball screw linear servo motor - 24SSTT Low Voltage/AC Series

■ 技术数据 Electrical Specifications

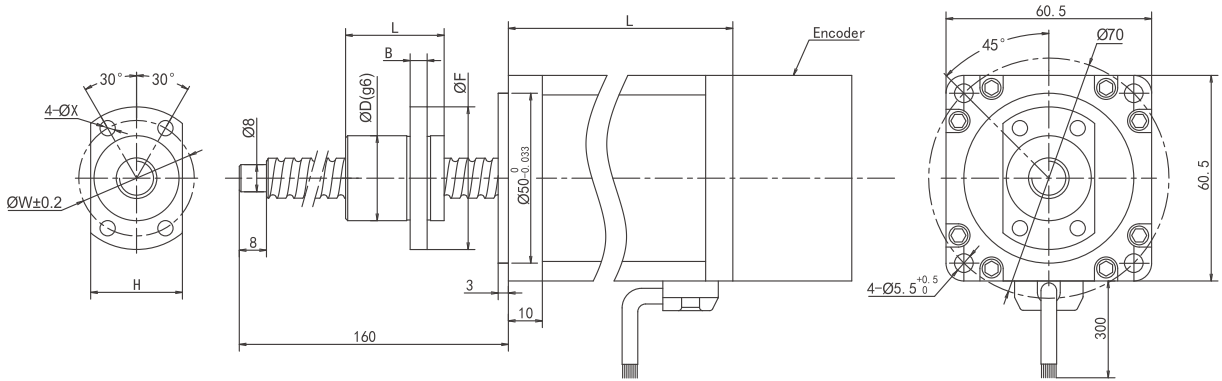
电机型号 Motor Model	24SSTT 482030	24SSTT 484030	24SSTT 2202030	24SSTT 2204030	产品 Product
相数 Number of Phase	3		3		
极数 Number of Poles	10		10		
额定电压 Rated Voltage(VDC/VAC)	48		220		
额定转速 Rated Speed(Rpm)	3000		3000		
额定转矩 Rated Torque(N.m)	0.64	1.27	0.64	1.27	
额定功率 Rated Power(W)	200	400	200	400	
额定电流 Rated Current(A)	5.5	11	1.45	2.9	
机身长度L Length(mm)	82	97	82	97	
编码器分辨率 (P/R) Encoder Resolution	1000,1024,2500/17bit,23bit				

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

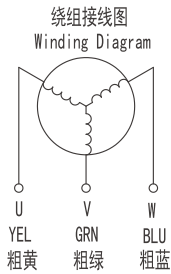
■ 滚珠丝杆技术参数 Ballscrew Specifications

丝杆型号	丝杆直径	丝杆导程	钢珠直径	循环数	额定负载 N		螺母尺寸							
	d	P	Da	n	动负载 Ca	静负载 Coa	D	F	B	L	E	W	H	X
1202	12	2	1.5875	3.7×1	3000	6400	25	42	5	24		34	27	4.5
1210		10	2.381	1.7×2	5100	9600	24	41	5	30	95	33	26	

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



FRAMELESS
SERVO MOTOR
SERIES

无框伺服电机系列

11



无框伺服电机 Frameless Servo Motor

无框伺服电机顾名思义无机壳等外围部件,将定子部件直接装配在机构中,便于终端产品的高度集成化,缩小体积。我们生产推出的系列化无框伺服电机采用多槽多极方案,实现电机的高转矩密度和低齿槽转矩输出,使结构更加紧凑,运行更加平稳;采用真空灌胶工艺,辅助高导热系数灌封胶,使电机散热更加优越,温升更低。

Frameless servo motor as the name implies the inorganic shell and other peripheral components, the stator and rotor components are directly assembled in the mechanism to facilitate the high integration of the terminal products and reduce the volume. The series frameless servo motor introduced by our Anjo Motor adopts the multi-slot and multi-pole scheme to realize the high torque density and low cogging torque output of the motor, which makes the structure more compact and the operation more stable. Vacuum glue filling technology is used to assist the filling glue with high thermal conductivity, which makes the heat dissipation of the motor more superior and the temperature rise lower.

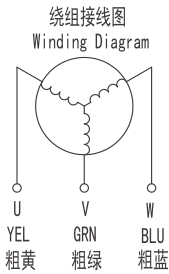
SIZE46 (○46mm) Frameless Servo Motor - 46SDTT Low Voltage Series

■ 技术数据 Electrical Specifications

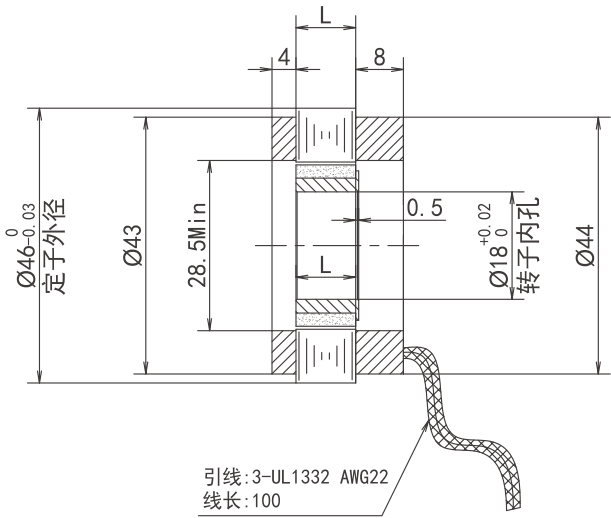
电机型号 Motor Model	46SDTT485030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	10	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	0.15	
额定功率 Rated Power(W)	50	
额定电流 Rated Current(A)	1.6	
峰值电流 Peak Current(A)	4.8	
峰值转矩 Peak Torque(N.m)	0.45	
转子惯量 Rotor Inertia(kg.cm²)	0.03	
转矩常数 Torque Constant(N.m/A)	0.09	
反电势常数 Torque Constant(V/krpm)	7.5	
线间电阻 Line-Line Resistance(Ω)	5.6	
线间电感 Line-Line Inductance(mH)	6.7	
机身长度 Length(mm)	10	
电机重量 Weight(kg)	0.3	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer's requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



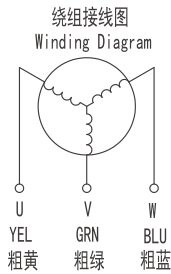
SIZE49(○49mm) Frameless Servo Motor - 49SDTT Low Voltage Series

■ 技术数据 Electrical Specifications

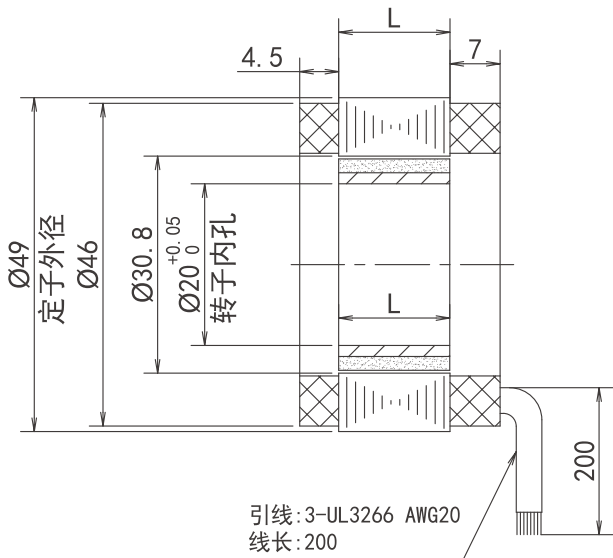
电机型号 Motor Model	49SDTT481030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	10	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	0.32	
额定功率 Rated Power(W)	100	
额定电流 Rated Current(A)	2.9	
峰值电流 Peak Current(A)	5.8	
峰值扭矩 Peak Torque(N.m)	0.64	
转子惯量 Rotor Inertia(kg.cm²)	0.05	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	
线间电阻 Line-Line Resistance(Ω)	2.5	
线间电感 Line-Line Inductance(mH)	3.7	
机身长度 Length(mm)	10	
电机重量 Weight(kg)	0.4	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



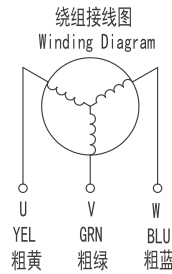
SIZE56(○56mm) Frameless Servo Motor - 56SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

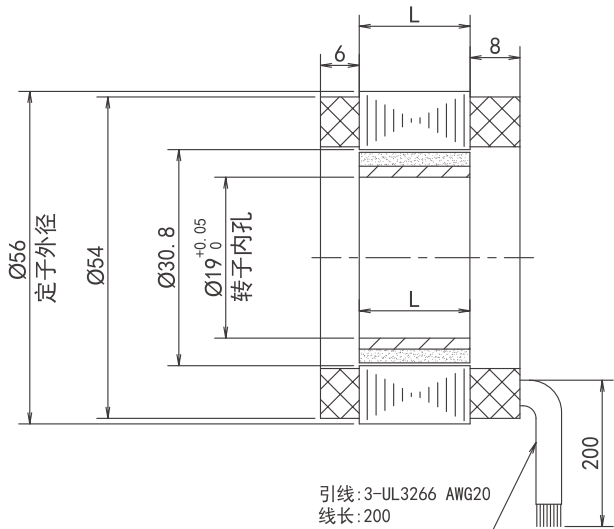
电机型号 Motor Model	56SSEH489030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	0.3	
额定功率 Rated Power(W)	95	
额定电流 Rated Current(A)	2.9	
峰值电流 Peak Current(A)	8.7	
峰值扭矩 Peak Torque(N.m)	0.9	
转子惯量 Rotor Inertia(kg.cm²)	0.15	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	9.5	
线间电阻 Line-Line Resistance(Ω)	1.5	
线间电感 Line-Line Inductance(mH)	2.1	
机身长度 Length(mm)	16	
电机重量 Weight(kg)	0.5	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



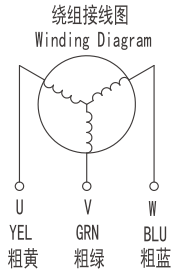
SIZE58 (○58mm) Frameless Servo Motor - 58SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

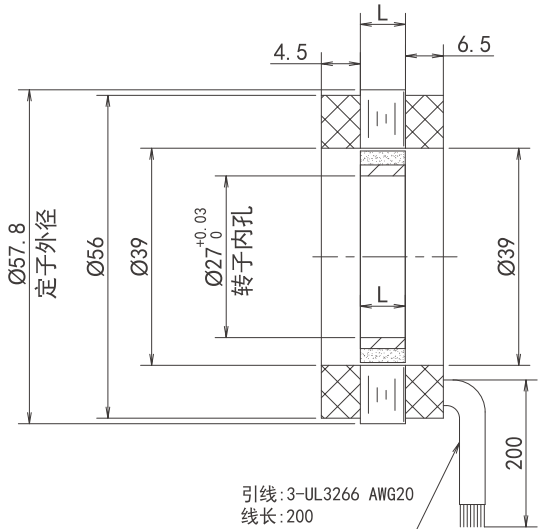
电机型号 Motor Model	58SSEH481030	58SSEH482030	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	16		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	0.32	0.64	
额定功率 Rated Power(W)	100	200	
额定电流 Rated Current(A)	2.9	5.6	
峰值电流 Peak Current(A)	5.8	11.2	
峰值转矩 Peak Torque(N.m)	0.64	1.28	
转子惯量 Rotor Inertia(kg.cm²)	0.1	0.15	
转矩常数 Torque Constant(N.m/A)	0.1	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	8.5	
线间电阻 Line-Line Resistance(Ω)	2.2	0.9	
线间电感 Line-Line Inductance(mH)	2.2	1.0	
机身长度 Length(mm)	7	15	
电机重量 Weight(kg)	0.4	0.5	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



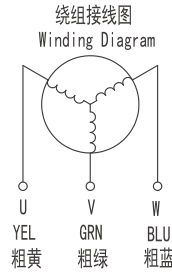
SIZE60 (○60mm) Frameless Servo Motor - 60SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

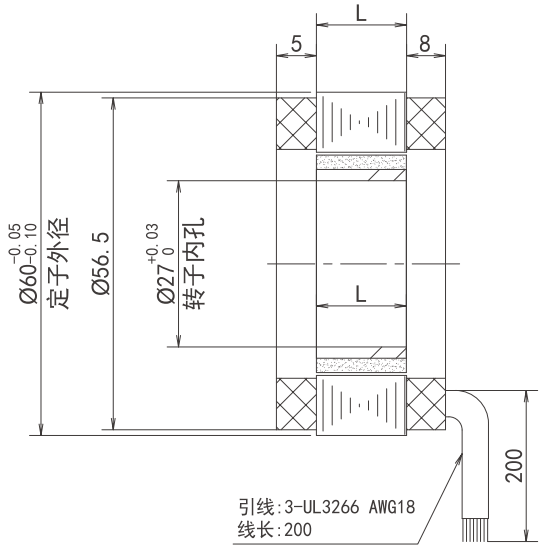
电机型号 Motor Model	60SSEH482030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	0.64	
额定功率 Rated Power(W)	200	
额定电流 Rated Current(A)	5.6	
峰值电流 Peak Current(A)	11.2	
峰值转矩 Peak Torque(N.m)	1.28	
转子惯量 Rotor Inertia(kg.cm²)	0.17	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	
线间电阻 Line-Line Resistance(Ω)	0.9	
线间电感 Line-Line Inductance(mH)	1.0	
机身长度 Length(mm)	14	
电机重量 Weight(kg)	0.6	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



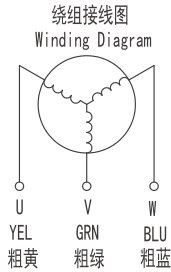
SIZE69 (○69mm) Frameless Servo Motor - 69SDTT Low Voltage Series

■ 技术数据 Electrical Specifications

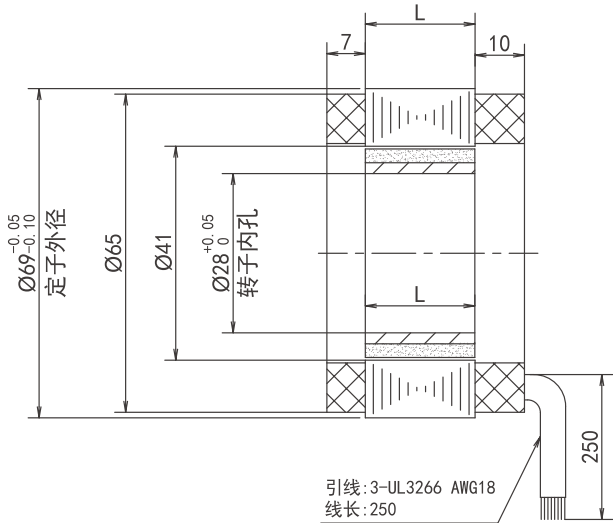
电机型号 Motor Model	69SDTT484030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	10	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	1.27	
额定功率 Rated Power(W)	400	
额定电流 Rated Current(A)	11	
峰值电流 Peak Current(A)	22	
峰值扭矩 Peak Torque(N.m)	2.54	
转子惯量 Rotor Inertia(kg.cm²)	0.25	
转矩常数 Torque Constant(N.m/A)	0.11	
反电势常数 Torque Constant(V/krpm)	9.5	
线间电阻 Line-Line Resistance(Ω)	0.4	
线间电感 Line-Line Inductance(mH)	0.37	
机身长度 Length(mm)	30	
电机重量 Weight(kg)	0.8	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



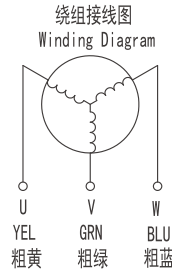
SIZE76 (○76mm) Frameless Servo Motor - 76SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

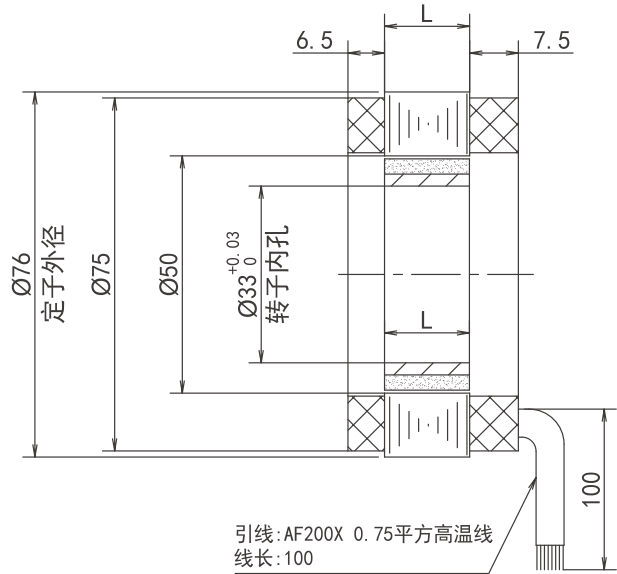
电机型号 Motor Model	76SSEH483030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	1.0	
额定功率 Rated Power(W)	314	
额定电流 Rated Current(A)	8.7	
峰值电流 Peak Current(A)	26.1	
峰值扭矩 Peak Torque(N.m)	3.1	
转子惯量 Rotor Inertia(kg.cm²)	0.38	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	9.5	
线间电阻 Line-Line Resistance(Ω)	0.4	
线间电感 Line-Line Inductance(mH)	0.9	
机身长度 Length(mm)	12	
电机重量 Weight(kg)	0.9	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



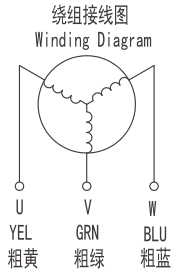
SIZE77 (○77mm) Frameless Servo Motor -77SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

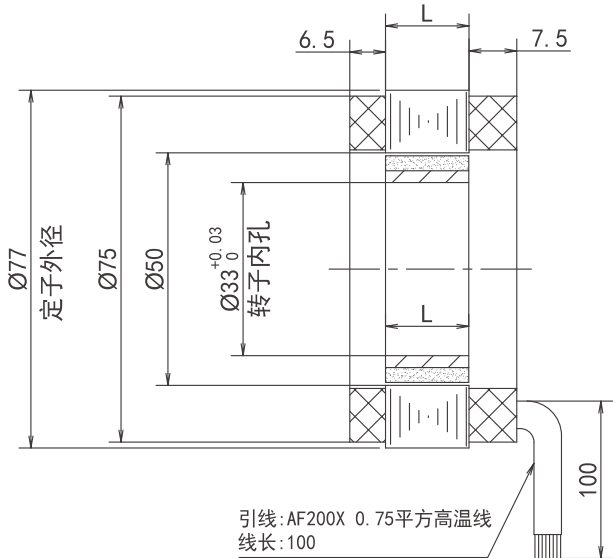
电机型号 Motor Model	77SSEH483030	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	1.0	
额定功率 Rated Power(W)	314	
额定电流 Rated Current(A)	8.7	
峰值电流 Peak Current(A)	26.1	
峰值扭矩 Peak Torque(N.m)	3.1	
转子惯量 Rotor Inertia(kg.cm²)	0.38	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	9.5	
线间电阻 Line-Line Resistance(Ω)	0.4	
线间电感 Line-Line Inductance(mH)	0.9	
机身长度 Length(mm)	13	
电机重量 Weight(kg)	0.9	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



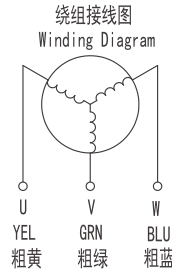
SIZE89 (○89mm) Frameless Servo Motor - 89SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

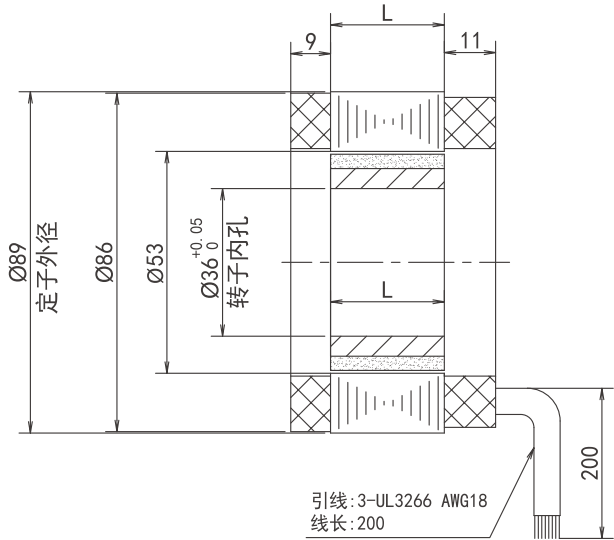
电机型号 Motor Model	89SSEH484730	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	1.5	
额定功率 Rated Power(W)	470	
额定电流 Rated Current(A)	13.1	
峰值电流 Peak Current(A)	39.3	
峰值扭矩 Peak Torque(N.m)	4.5	
转子惯量 Rotor Inertia(kg.cm²)	0.41	
转矩常数 Torque Constant(N.m/A)	0.11	
反电势常数 Torque Constant(V/krpm)	10.5	
线间电阻 Line-Line Resistance(Ω)	0.6	
线间电感 Line-Line Inductance(mH)	1.1	
机身长度 Length(mm)	20	
电机重量 Weight(kg)	1.0	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



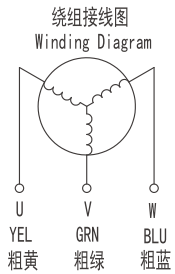
SIZE91 (○91mm) Frameless Servo Motor - 91SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

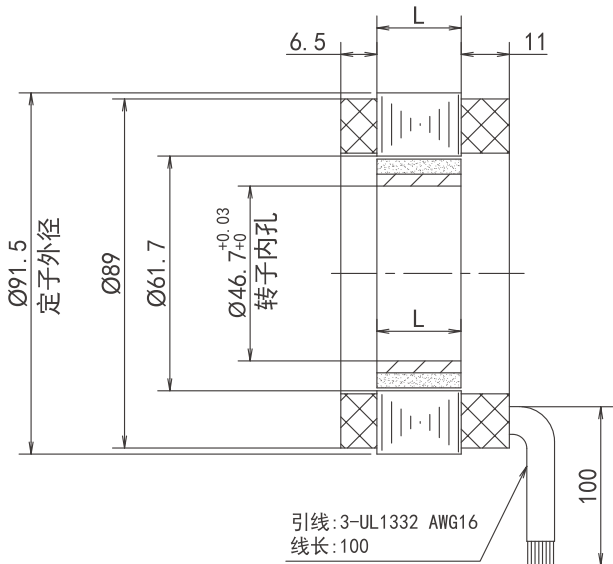
电机型号 Motor Model	91SSEH486330	91SSEH481230	产品 Product
相数 Number of Phase	3		
极数 Number of Poles	16		
额定电压 Rated Voltage(VDC)	48		
额定转速 Rated Speed(Rpm)	3000		
额定转矩 Rated Torque(N.m)	2.0	4.0	
额定功率 Rated Power(W)	630	1200	
额定电流 Rated Current(A)	17	34	
峰值电流 Peak Current(A)	34	68	
峰值转矩 Peak Torque(N.m)	4	8	
转子惯量 Rotor Inertia(kg.cm²)	0.5	0.8	
转矩常数 Torque Constant(N.m/A)	0.1	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	8.5	
线间电阻 Line-Line Resistance(Ω)	0.14	0.04	
线间电感 Line-Line Inductance(mH)	0.45	0.2	
机身长度 Length(mm)	15	30	
电机重量 Weight(kg)	0.8	1.1	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



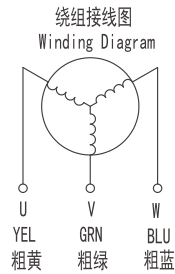
SIZE95 (○95mm) Frameless Servo Motor - 95SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

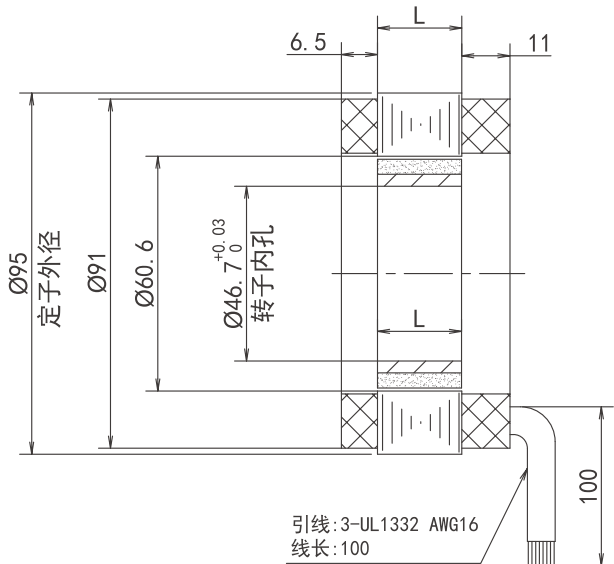
电机型号 Motor Model	95SSEH486330	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	2.0	
额定功率 Rated Power(W)	630	
额定电流 Rated Current(A)	17	
峰值电流 Peak Current(A)	34	
峰值转矩 Peak Torque(N.m)	4.0	
转子惯量 Rotor Inertia(kg.cm²)	0.5	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	
线间电阻 Line-Line Resistance(Ω)	0.14	
线间电感 Line-Line Inductance(mH)	0.45	
机身长度 Length(mm)	14	
电机重量 Weight(kg)	0.9	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



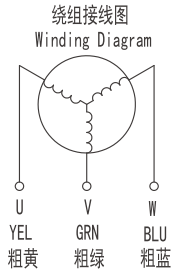
SIZE103 (○103mm) Frameless Servo Motor - 103SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

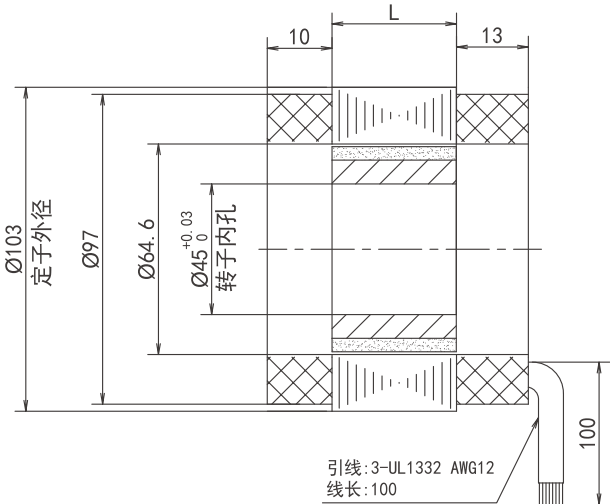
电机型号 Motor Model	103SSTH489430	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	3.0	
额定功率 Rated Power(W)	942	
额定电流 Rated Current(A)	26	
峰值电流 Peak Current(A)	52	
峰值扭矩 Peak Torque(N.m)	6.0	
转子惯量 Rotor Inertia(kg.cm²)	0.5	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	
线间电阻 Line-Line Resistance(Ω)	0.05	
线间电感 Line-Line Inductance(mH)	0.15	
机身长度 Length(mm)	30	
电机重量 Weight(kg)	1.4	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



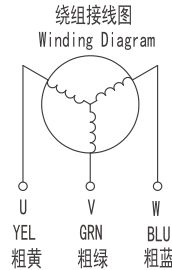
SIZE122 (○122mm) Frameless Servo Motor - 122SSTH Low Voltage Series

■ 技术数据 Electrical Specifications

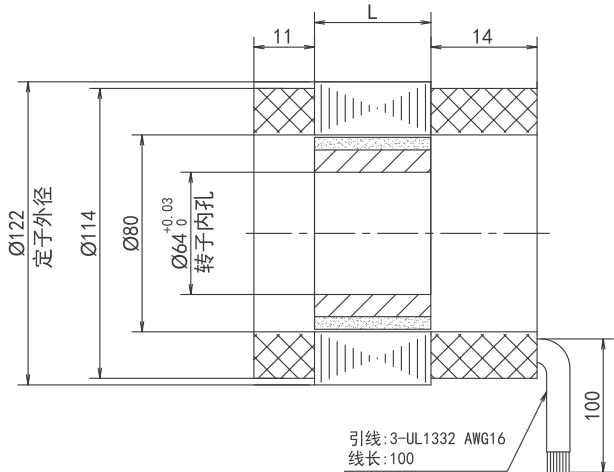
电机型号 Motor Model	122SSTH486330	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	2.0	
额定功率 Rated Power(W)	630	
额定电流 Rated Current(A)	17	
峰值电流 Peak Current(A)	34	
峰值扭矩 Peak Torque(N.m)	4.0	
转子惯量 Rotor Inertia(kg.cm²)	0.5	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	
线间电阻 Line-Line Resistance(Ω)	0.14	
线间电感 Line-Line Inductance(mH)	0.45	
机身长度 Length(mm)	15	
电机重量 Weight(kg)	0.8	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



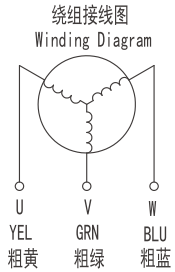
SIZE140 (○140mm) Frameless Servo Motor - 140SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

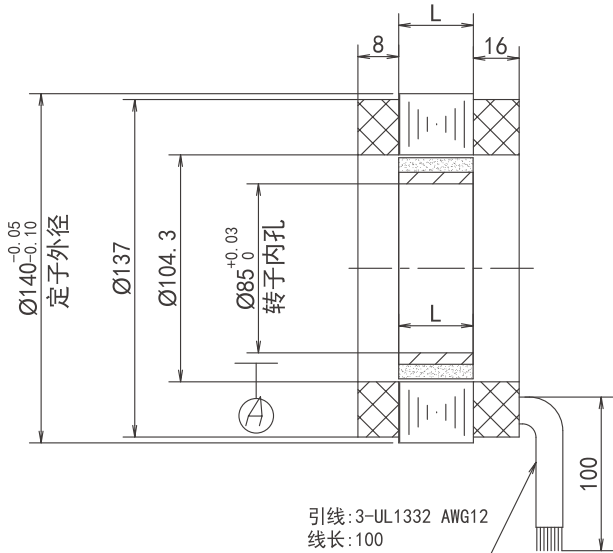
电机型号 Motor Model	140SSEH482430	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	7.6	
额定功率 Rated Power(W)	2400	
额定电流 Rated Current(A)	66	
峰值电流 Peak Current(A)	132	
峰值扭矩 Peak Torque(N.m)	15.2	
转子惯量 Rotor Inertia(kg.cm²)	19	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	
线间电阻 Line-Line Resistance(Ω)	0.007	
线间电感 Line-Line Inductance(mH)	0.025	
机身长度 Length(mm)	50	
电机重量 Weight(kg)	2.9	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



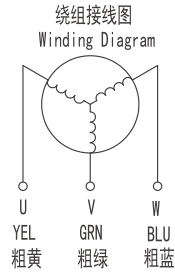
SIZE145 (○145mm) Frameless Servo Motor - 145SSEH Low Voltage Series

■ 技术数据 Electrical Specifications

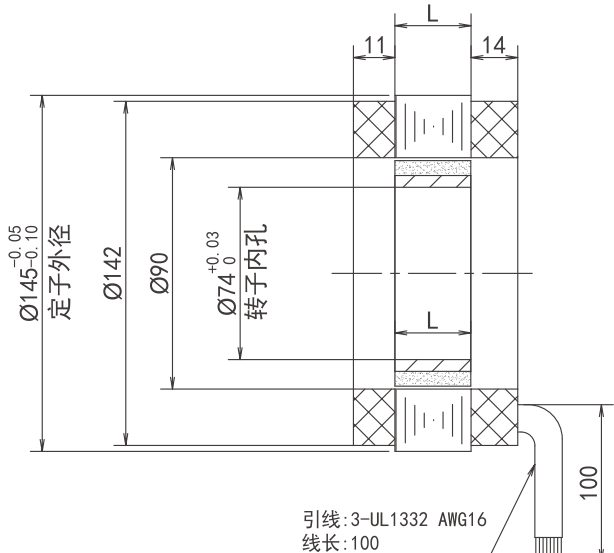
电机型号 Motor Model	145SSEH487530	产品 Product
相数 Number of Phase	3	
极数 Number of Poles	16	
额定电压 Rated Voltage(VDC)	48	
额定转速 Rated Speed(Rpm)	3000	
额定转矩 Rated Torque(N.m)	2.4	
额定功率 Rated Power(W)	750	
额定电流 Rated Current(A)	21	
峰值电流 Peak Current(A)	42	
峰值扭矩 Peak Torque(N.m)	4.8	
转子惯量 Rotor Inertia(kg.cm²)	0.4	
转矩常数 Torque Constant(N.m/A)	0.1	
反电势常数 Torque Constant(V/krpm)	8.5	
线间电阻 Line-Line Resistance(Ω)	0.11	
线间电感 Line-Line Inductance(mH)	0.35	
机身长度 Length(mm)	20	
电机重量 Weight(kg)	1.6	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

■ 接线图 Wiring Diagram



■ 外形图 Dimensions(单位Unit: mm)



混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

OUTER ROTER BLDC MOTOR SERIES

外转子直流无刷电机系列

12



外转子直流无刷电机 Outer Roter BLDC Motor

外转子直流无刷电机较内转子来说, 转子的转动惯量要大很多 (转子的主要质量都集中在外壳上), 所以转速较内转子电机要慢, 可以用来直接驱动负载, 而省去了机械减速机构, 特别适合低速大力矩场合, 体积小, 输出功率高。

Outer rotor brushless dc motor a rotor inside and a much higher moment of inertia of the rotor (on the main quality is concentrated in the shell of the rotor), so the speed slower than inner rotor motor, which can be used to directly drive the load, and eliminate the mechanical retarding mechanism, especially suitable for low speed high torque, small volume, high output power.

混合式 步进电机 Hybrid Stepper Motor
步进 伺服系统 Step Servo System
混合式 直线电机 Hybrid Linear Motor
行星减速 步进电机 Planetary Gearbox Stepper Motor
步进伺服 一体机 Integrated Drive
磁滞 制动器 Hysteresis Brake
直流 无刷电机 DC Brushless Motor
行星减速 无刷电机 Planetary Gearbox Brushless Motor
伺服 电机 Servo Motor
滚珠丝杆 直线伺服 电机 Ball Screw Linear Servo Motor
无框 伺服电机 Frameless Servo Motor
外转子 直流无刷 电机 Outer Roter BLDC Motor
低压伺服 一体机 Integrated Low Voltage Servo

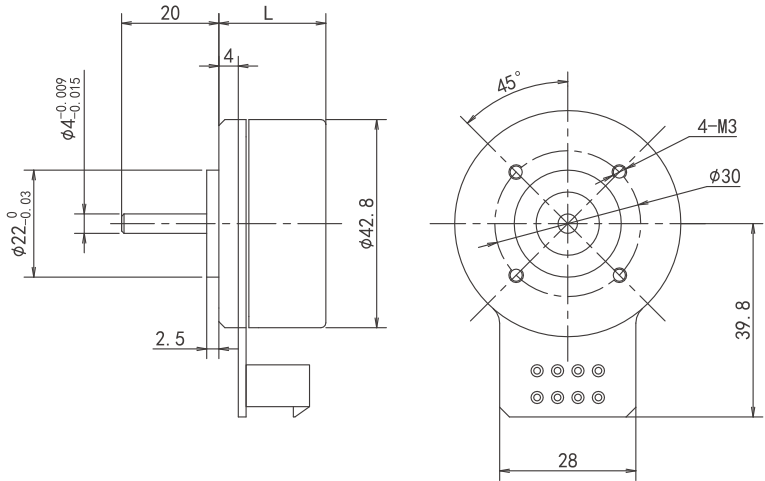
SIZE42 (○42mm) 外转子无刷电机 Outer Roter BLDC Motor - 42EL Series

■ 技术数据 Electrical Specifications

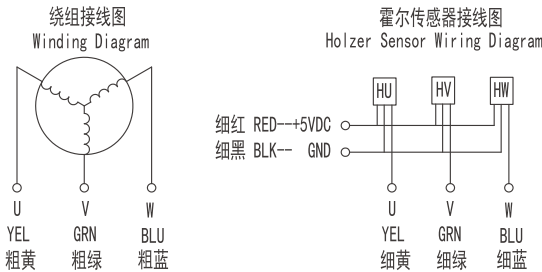
电机型号 Motor Model	42ELTH243550		42ELTH245050	42ELTH247050	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	16				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	5000				
额定转矩 Rated Torque(N.m)	0.06	0.1	0.13		
额定功率 Rated Power(W)	35	50	70		
额定电流 Rated Current(A)	2.2	3.2	4.4		
峰值电流 Peak Current(A)	6.6	9.6	13.2		
峰值转矩 Peak Torque(N.m)	0.18	0.3	0.39		
转子惯量 Rotor Inertia(kg.cm²)	0.13	0.23	0.33		
转矩常数 Torque Constant(N.m/A)	0.0.3	0.03	0.0.3		
反电势常数 Torque Constant(V/krpm)	2.8	2.8	2.8		
线间电阻 Line-Line Resistance(Ω)	2.0	1.5	1.0		
线间电感 Line-Line Inductance(mH)	1.5	1.0	0.5		
机身长度 Length(mm)	21.3	26.3	31.3		
电机重量 Weight(kg)	0.12	0.18	0.24		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE42 (○42mm) 行星减速外转子 Planetary Gearbox Outer Roter BLDC - 42EL Series

■ 技术数据 Electrical Specifications

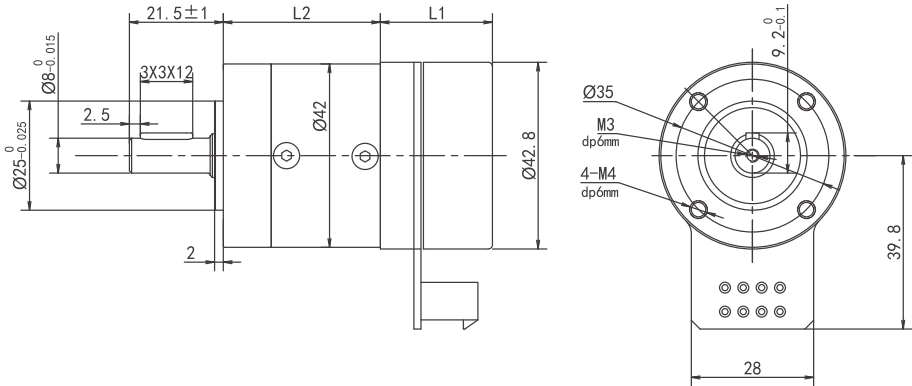
电机型号 Motor Model	42ELTH243550	42ELTH245050	42ELTH247050	产品 Product
额定电压 Rated Voltage(VDC)	24			
额定转速 Rated Speed(Rpm)	5000			
额定转矩 Rated Torque(N.m)	0.06	0.1	0.13	
额定功率 Rated Power(W)	35	50	70	
机身长度L1 Length(mm)	21.3	26.3	31.3	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

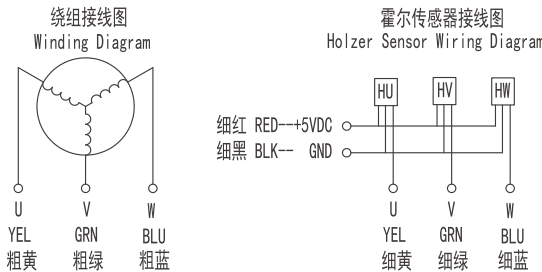
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1	2
传动效率 Transmission efficiency	96%	94%
最大径向负载 Max radial load(N)	150	150
最大轴向负载 Max axial load(N)	80	80
额定承受扭矩 Transmission torque(N.m)	6	10
减速比 Reduction Ratio	5 , 7, 10	16, 20, 25, 28, 35, 40, 50, 70
长度L2 Length(mm)	39	51.5

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



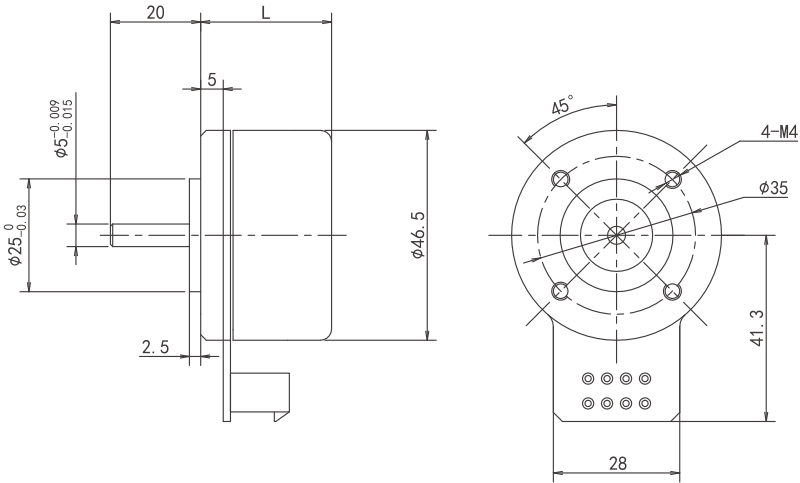
SIZE46 (○46mm) 外转子无刷电机 Outer Roter BLDC Motor - 46EL Series

■ 技术数据 Electrical Specifications

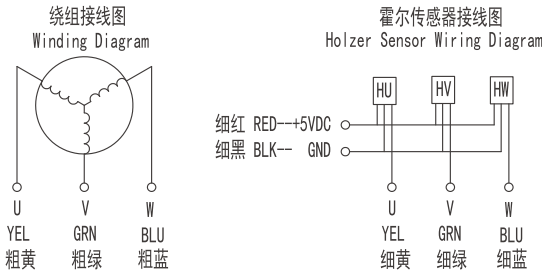
电机型号 Motor Model	46ELTH244050		46ELTH246050	46ELTH248050	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	16				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	5000				
额定转矩 Rated Torque(N.m)	0.08	0.12	0.16		
额定功率 Rated Power(W)	40	60	80		
额定电流 Rated Current(A)	2.5	3.8	5.1		
峰值电流 Peak Current(A)	7.5	11.4	15.2		
峰值转矩 Peak Torque(N.m)	0.24	0.36	0.48		
转子惯量 Rotor Inertia(kg.cm²)	0.2	0.35	0.5		
转矩常数 Torque Constant(N.m/A)	0.03	0.03	0.03		
反电势常数 Torque Constant(V/krpm)	2.8	2.8	2.8		
线间电阻 Line-Line Resistance(Ω)	1.5	0.9	0.4		
线间电感 Line-Line Inductance(mH)	1.3	0.8	0.3		
机身长度 Length(mm)	25.3	30.3	35.3		
电机重量 Weight(kg)	0.2	0.3	0.4		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



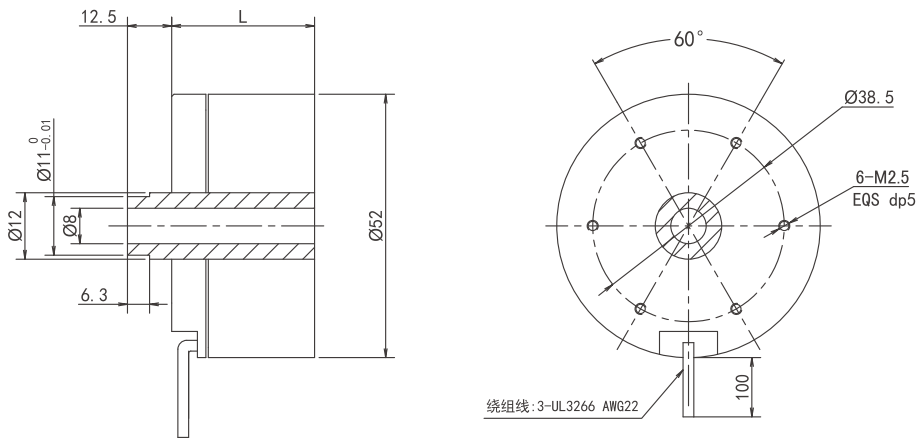
SIZE52 (○52mm) 外转子无刷电机 Outer Roter BLDC Motor - 52EY Series

■ 技术数据 Electrical Specifications

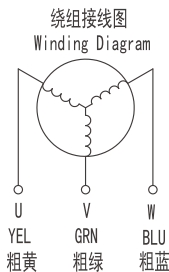
电机型号 Motor Model	52EYDN486920		52EYDN481320	52EYDN482020	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	28				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	2000				
额定转矩 Rated Torque(N.m)	0.33	0.66	0.99		
额定功率 Rated Power(W)	69	138	207		
额定电流 Rated Current(A)	2.0	4.0	6.0		
峰值电流 Peak Current(A)	4.0	8.0	12		
峰值转矩 Peak Torque(N.m)	0.66	1.32	1.98		
转子惯量 Rotor Inertia(kg.cm²)	0.13	0.23	0.33		
转矩常数 Torque Constant(N.m/A)	0.16	0.16	0.16		
反电势常数 Torque Constant(V/krpm)	15	15	15		
线间电阻 Line-Line Resistance(Ω)	2.0	1.5	1.0		
线间电感 Line-Line Inductance(mH)	1.5	1.0	0.5		
机身长度 Length(mm)	25	35	45		
电机重量 Weight(kg)	0.2	0.3	0.4		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



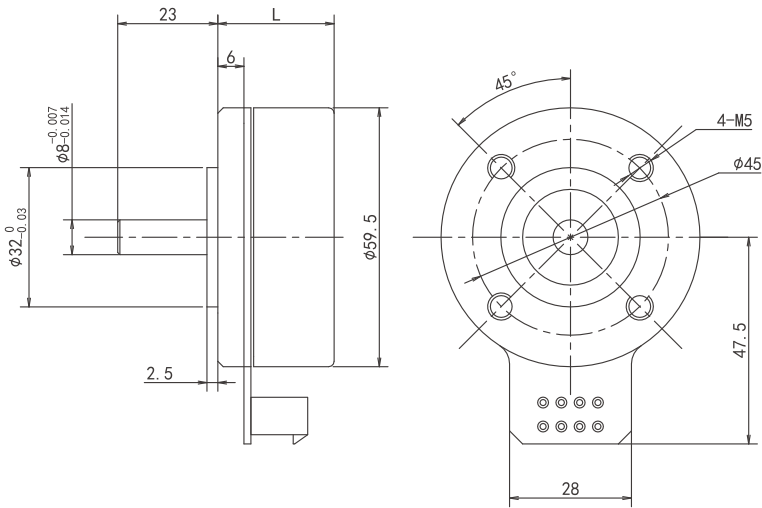
SIZE60 (○60mm) 外转子无刷电机 Outer Roter BLDC Motor - 60EL Series

■ 技术数据 Electrical Specifications

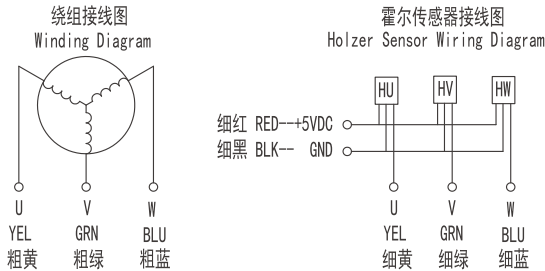
电机型号 Motor Model	60ELTH244530		60ELTH246030	60ELTH249030	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	16				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.15	0.2	0.3		
额定功率 Rated Power(W)	45	60	90		
额定电流 Rated Current(A)	2.9	3.8	5.8		
峰值电流 Peak Current(A)	8.7	11.4	17.4		
峰值扭矩 Peak Torque(N.m)	0.45	0.6	0.9		
转子惯量 Rotor Inertia(kg.cm²)	0.7	1.0	1.3		
转矩常数 Torque Constant(N.m/A)	0.05	0.05	0.05		
反电势常数 Torque Constant(V/krpm)	4.5	4.5	4.5		
线间电阻 Line-Line Resistance(Ω)	0.7	0.45	0.2		
线间电感 Line-Line Inductance(mH)	0.25	0.15	0.1		
机身长度 Length(mm)	26.3	31.3	36.3		
电机重量 Weight(kg)	0.3	0.4	0.5		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



SIZE60 (○60mm) 行星减速外转子 Planet Gearbox Outer Roter BLDC - 60EL Series

■ 技术数据 Electrical Specifications

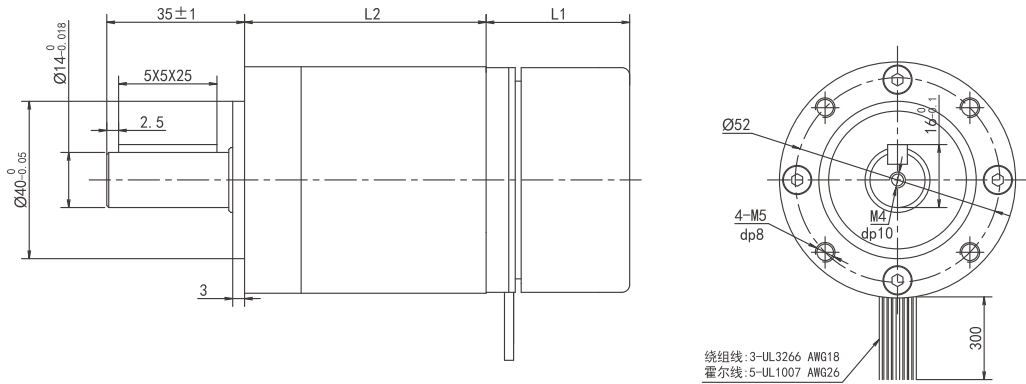
电机型号 Motor Model	60ELTH244530	60ELTH246030	60ELTH249030	产品 Product
额定电压 Rated Voltage(VDC)	24	24	24	
额定转速 Rated Speed(Rpm)	3000	3000	3000	
额定转矩 Rated Torque(N.m)	0.15	0.3	0.45	
额定功率 Rated Power(W)	45	60	90	
机身长度L1 Length(mm)	29.3	34.3	39.3	

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

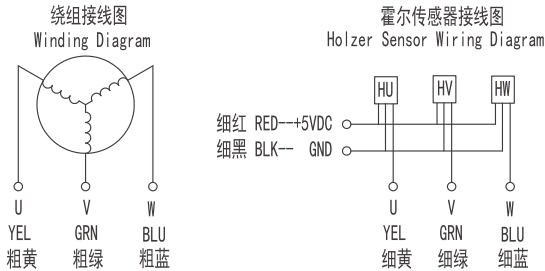
■ 齿轮箱技术数据 Gearbox Electrical Specifications

减速级数 Reducer Series	1			2							
传动效率 Transmission efficiency	96%			94%							
最大径向负载 Max radial load(N)	580			580							
最大轴向负载 Max axial load(N)	340			340							
额定承受扭矩 Transmission torque(N.m)	28	20	10	30	30	32	30	30	25	25	20
减速比 Reduction Ratio	5	7	10	16	20	25	28	35	40	50	70
长度L2 Length(mm)	38.3			52							

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



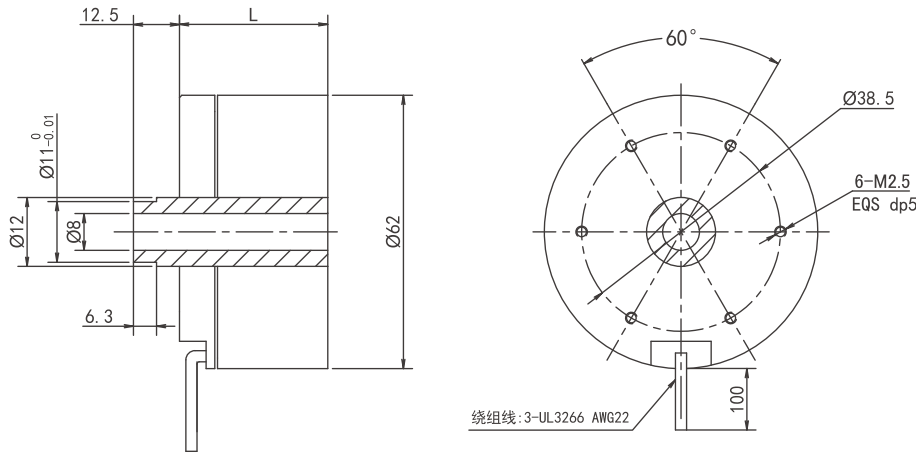
SIZE62 (○62mm) 外转子无刷电机 Outer Roter BLDC Motor - 62EY Series

■ 技术数据 Electrical Specifications

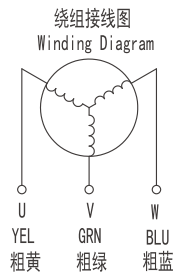
电机型号 Motor Model	62EYDN481020	62EYDN482020	62EYDN481510	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	28			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	2000		1000	
额定转矩 Rated Torque(N.m)	0.5	1.0	1.5	
额定功率 Rated Power(W)	104	208	157	
额定电流 Rated Current(A)	3.0	6.0	4.6	
峰值电流 Peak Current(A)	6.0	12	9.2	
峰值转矩 Peak Torque(N.m)	1.0	2.0	3.0	
转子惯量 Rotor Inertia(kg.cm²)	0.23	0.43	0.53	
转矩常数 Torque Constant(N.m/A)	0.16	0.16	0.32	
反电势常数 Torque Constant(V/krpm)	14	14	28	
线间电阻 Line-Line Resistance(Ω)	2.0	1.5	1.0	
线间电感 Line-Line Inductance(mH)	1.5	1.0	0.5	
机身长度 Length(mm)	25	35	45	
电机重量 Weight(kg)	0.3	0.4	0.5	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



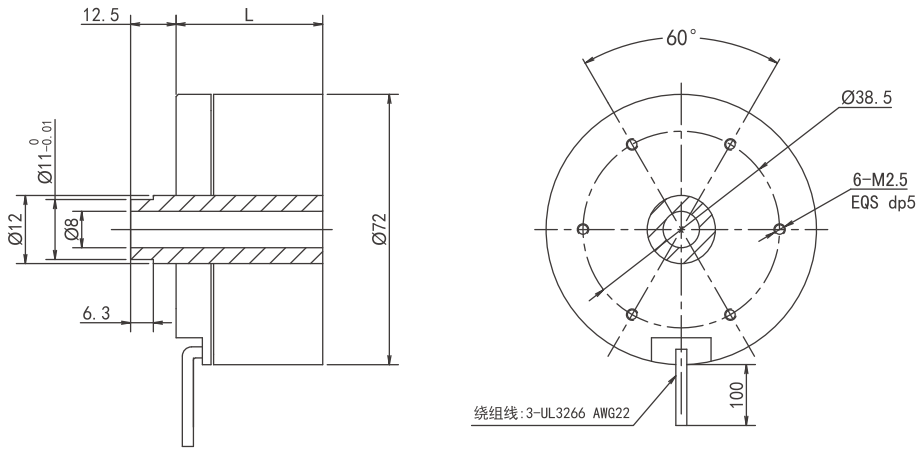
SIZE72 (○72mm) 外转子无刷电机 Outer Roter BLDC Motor - 72ES Series

■ 技术数据 Electrical Specifications

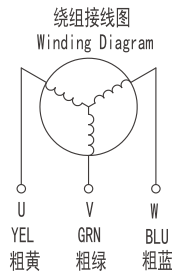
电机型号 Motor Model	72ESDN481010		72ESDN481510	产品 Product
相数 Number of Phase	3			
极数 Number of Poles	28			
额定电压 Rated Voltage(VDC)	48			
额定转速 Rated Speed(Rpm)	1000			
额定转矩 Rated Torque(N.m)	1.0		2.0	
额定功率 Rated Power(W)	104		209	
额定电流 Rated Current(A)	3.0		6.0	
峰值电流 Peak Current(A)	6.0		12	
峰值转矩 Peak Torque(N.m)	2.0		4.0	
转子惯量 Rotor Inertia(kg.cm²)	0.25		0.55	
转矩常数 Torque Constant(N.m/A)	0.33		0.33	
反电势常数 Torque Constant(V/krpm)	28		28	
线间电阻 Line-Line Resistance(Ω)	2.0		1.0	
线间电感 Line-Line Inductance(mH)	1.5		0.5	
机身长度 Length(mm)	30		40	
电机重量 Weight(kg)	0.4		0.6	

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



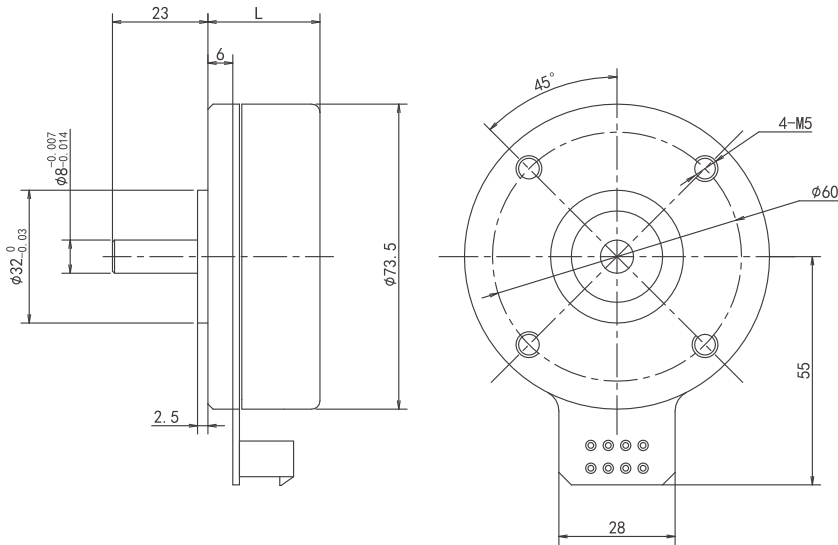
SIZE75 (○75mm) 外转子无刷电机 Outer Roter BLDC Motor - 75EL Series

■ 技术数据 Electrical Specifications

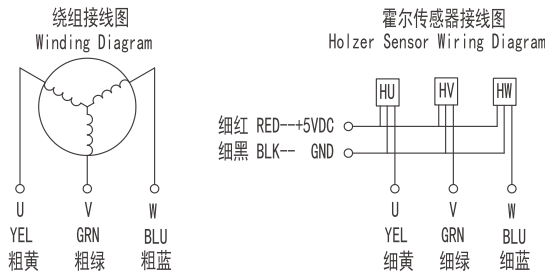
电机型号 Motor Model	75ELTH249030		75ELTH241430	75ELTH241830	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	16				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	3000				
额定转矩 Rated Torque(N.m)	0.3	0.45	0.6		
额定功率 Rated Power(W)	90	140	180		
额定电流 Rated Current(A)	5.8	8.9	11.6		
峰值电流 Peak Current(A)	17.4	26.7	34.8		
峰值转矩 Peak Torque(N.m)	0.9	1.35	1.8		
转子惯量 Rotor Inertia(kg.cm²)	1.5	1.9	2.3		
转矩常数 Torque Constant(N.m/A)	0.05	0.05	0.05		
反电势常数 Torque Constant(V/krpm)	4.5	4.5	4.5		
线间电阻 Line-Line Resistance(Ω)	0.5	0.4	0.3		
线间电感 Line-Line Inductance(mH)	0.2	0.1	0.05		
机身长度 Length(mm)	26.3	31.3	36.3		
电机重量 Weight(kg)	0.5	0.7	0.9		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



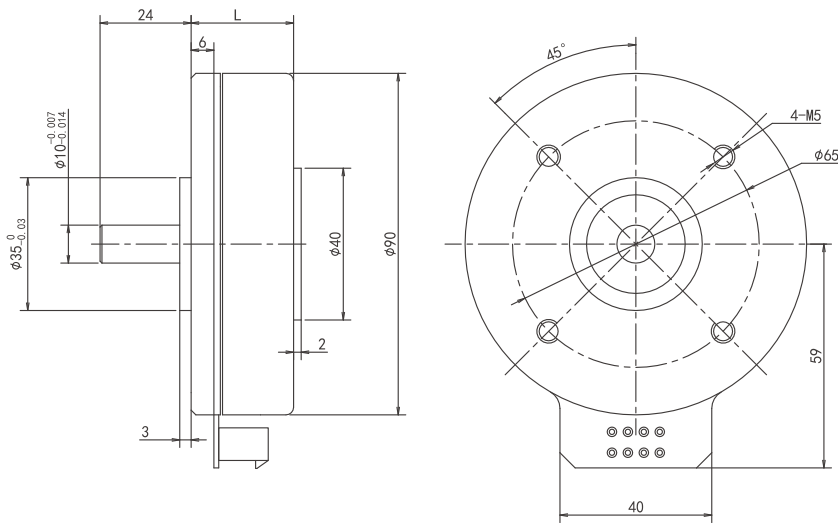
SIZE90 (○90mm) 外转子无刷电机 Outer Roter BLDC Motor - 90EL Series

■ 技术数据 Electrical Specifications

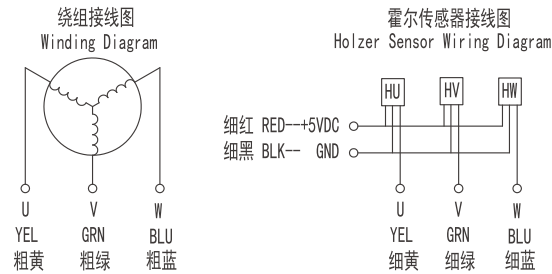
电机型号 Motor Model	90ELED241020		90ELED241520	90ELED242020	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	24				
额定电压 Rated Voltage(VDC)	24				
额定转速 Rated Speed(Rpm)	2000				
额定转矩 Rated Torque(N.m)	0.5	0.75	1.0		
额定功率 Rated Power(W)	100	150	200		
额定电流 Rated Current(A)	6.4	9.6	12.8		
峰值电流 Peak Current(A)	19.2	28.8	38.4		
峰值转矩 Peak Torque(N.m)	1.5	2.25	3.0		
转子惯量 Rotor Inertia(kg.cm²)	3.0	4.0	5.0		
转矩常数 Torque Constant(N.m/A)	0.08	0.08	0.08		
反电势常数 Torque Constant(V/krpm)	7.5	7.5	7.5		
线间电阻 Line-Line Resistance(Ω)	0.4	0.25	0.15		
线间电感 Line-Line Inductance(mH)	0.3	0.25	0.2		
机身长度 Length(mm)	26.3	31.3	36.3		
电机重量 Weight(kg)	0.6	0.8	1.0		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



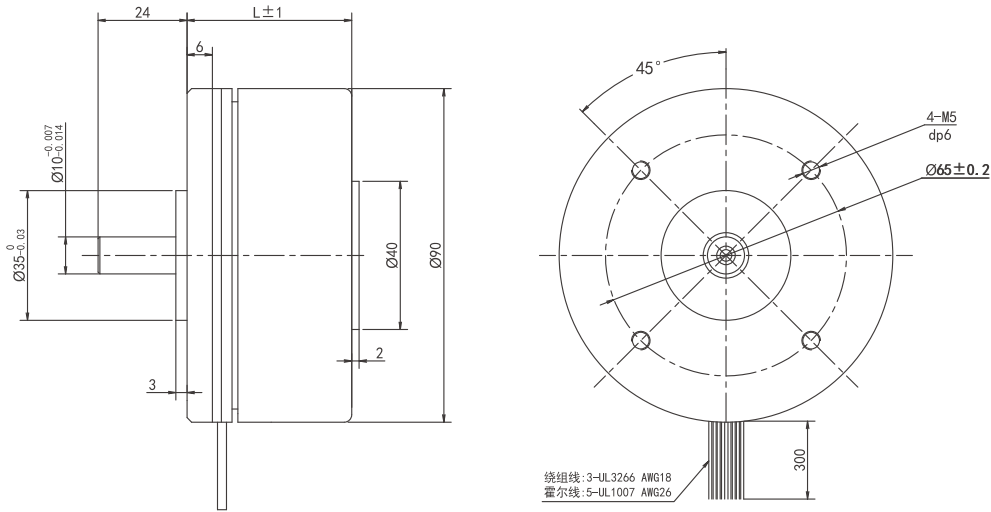
SIZE90 (○90mm) 外转子无刷电机 Outer Roter BLDC Motor - 90ES Series

■ 技术数据 Electrical Specifications

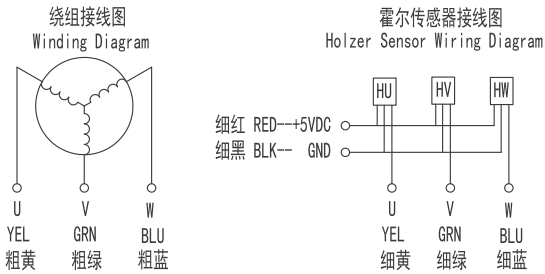
电机型号 Motor Model	90ESEH481520		90ESEH482220	90ESEH483020	产品 Product
相数 Number of Phase	3				
极数 Number of Poles	16				
额定电压 Rated Voltage(VDC)	48				
额定转速 Rated Speed(Rpm)	2000				
额定转矩 Rated Torque(N.m)	0.75	1.125	1.5		
额定功率 Rated Power(W)	150	225	300		
额定电流 Rated Current(A)	4.2	6.3	8.4		
峰值电流 Peak Current(A)	12.6	18.9	25.2		
峰值扭矩 Peak Torque(N.m)	2.25	3.375	4.5		
转子惯量 Rotor Inertia(kg.cm²)	3.2	4.2	5.2		
转矩常数 Torque Constant(N.m/A)	0.17	0.17	0.17		
反电势常数 Torque Constant(V/krpm)	16.5	16.5	16.5		
线间电阻 Line-Line Resistance(Ω)	0.4	0.25	0.15		
线间电感 Line-Line Inductance(mH)	0.3	0.25	0.2		
机身长度 Length(mm)	31	36	41		
电机重量 Weight(kg)	0.7	0.9	1.1		

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’ s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



INTEGRATED
LOW VOLTAGE
SERVO SERIES
低压伺服一体机系列

13



低压伺服一体机
Integrated Low Voltage Servo

低压伺服一体机将伺服电机、驱动器、编码器等多个单元集成在一起，一体化设计缩小40%以上占用空间，同时减少50%以上的接线。此外，此款产品具有优异的电磁兼容特性，能够满足客户对于低压、高效、集成化的需求。

The low-voltage servo all-in-one machine integrates servo motors, drivers, encoders and other units together, and the integrated design reduces the space occupied by more than 40% and the wiring by more than 50%. In addition, this product has excellent electromagnetic compatibility and can meet the needs of customers for low voltage, high efficiency and integration.

低压伺服一体机 Integrated Low Voltage Servo

10SYNE(□25mm) - Integrated Drive Series

伺服一体机是驱动与伺服电机的完美结合;它完美融合了伺服电机和驱动技术于一体，不仅可以节约安装空间，同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closedloop control

Customizable drive function

Customizable motor parameters

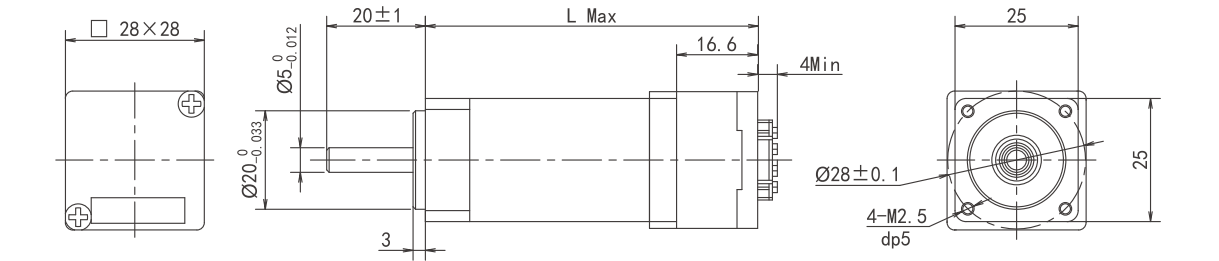
Customizable screw

技术数据 Electrical Specifications

型号 Series Model	相数 Number of Phase	极数 Number of Poles	电压 Input Voltage (V)	额定功率 Rated Power (W)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (Rpm)	额定电流 Rated Current (A)	机身长L Motor Length L (mm)
10SYNE242030	3	8	24	20	0.06	3000	1.2	68

*以上仅为代表性产品，派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’ s requirements.

外形图 Dimensions(单位Unit: mm)



接线图 Wiring Diagram

A1257H-12P

(控制接口定义)

A1257H-12P	线规型号
1 红 VCC +24VDC	AWG26
2 黑 GND-	UL3265
3 黄 PUL+	K/VVO 0.15*7P
4 黄/黑 PUL-	
5 橙 DIR+	
6 橙/黑 DIR-	

A1257H-12P	线规型号
7 绿 ENA+	K/VVO 0.15*7P
8 绿/黑 ENA-	
9 白 ALM+	
10 白/黑 ALM-	
11 棕 RS485A	
12 棕/黑 RS485B	

11SYNE(□28mm) - Integrated Drive Series



伺服一体机是驱动与伺服电机的完美结合;它完美融合了伺服电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closedloop control

Customizable drive function

Customizable motor parameters

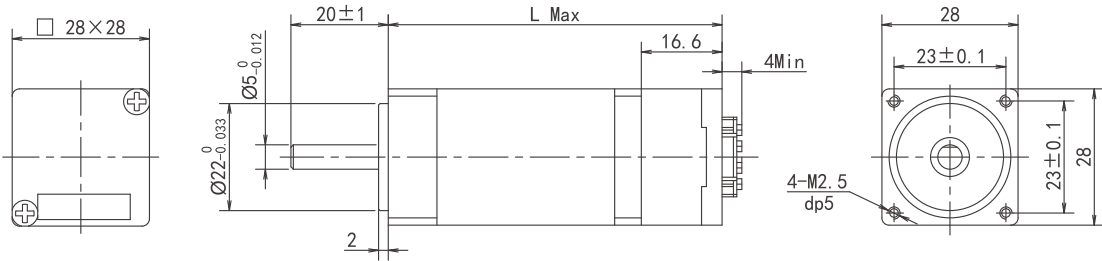
Customizable screw

■ 技术数据 Electrical Specifications

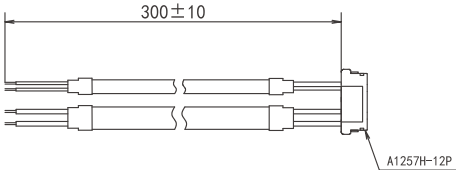
型号 Series Model	相数 Number of Phase	极数 Number of Poles	电压 Input Voltage (V)	额定功率 Rated Power (W)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (Rpm)	额定电流 Rated Current (A)	机身長L Motor Length L (mm)
11SYNE242030	3	8	24	20	0.06	3000	1.2	69

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



(控制接口定义)

A1257H-12P	线规型号
1 红 VCC +24VDC	AWG26 UL3265
2 黑 GND-	
3 黄 PUL+	K/VVO 0.15*7P
4 黄/黑 PUL-	
5 橙 DIR+	
6 橙/黑 DIR-	

A1257H-12P	线规型号
7 绿 ENA+	K/VVO 0.15*7P
8 绿/黑 ENA-	
9 白 ALM+	
10 白/黑 ALM-	
11 棕 RS485A	
12 棕/黑 RS485B	

16SYTT(□40mm) - Integrated Drive Series



伺服一体机是驱动与伺服电机的完美结合;它完美融合了伺服电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closedloop control

Customizable drive function

Customizable motor parameters

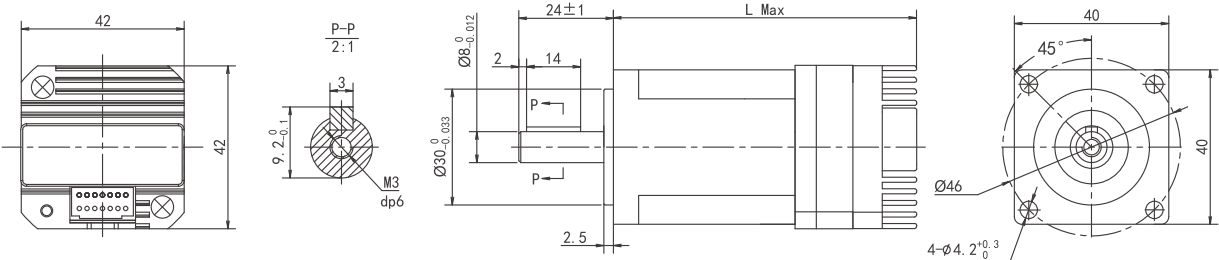
Customizable screw

■ 技术数据 Electrical Specifications

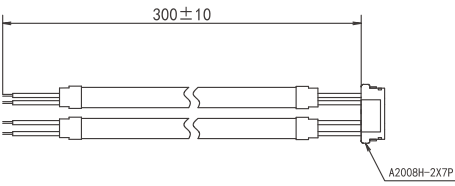
型号 Series Model	相数 Number of Phase	极数 Number of Poles	电压 Input Voltage (V)	额定功率 Rated Power (W)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (Rpm)	额定电流 Rated Current (A)	机身長L Motor Length L (mm)
16SYTT485030	3	10	48	50	0.16	3000	1.6	79
16SYTT243030	3	10	24	30	0.1	3000	1.8	74

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



(控制接口定义)

A2008H-2X7P	线规型号
1 红 VCC +24VDC	AWG22 UL1430
2 黑 GND-	
3 黄 PUL+	K/VVO 0.15*7P
4 黄/黑 PUL-	
5 橙 DIR+	
6 橙/黑 DIR-	
7 绿 ENA+	

A2008H-2X7P	线规型号
8 绿/黑 ENA-	K/VVO 0.15*7P
9 白 ALM+	
10 白/黑 ALM-	
11 灰 AIN_5V	
12 灰/黑 AIN_10V	
13 棕 RS485B	
14 棕/黑 RS485A	

17NYTT(□42mm) - Integrated Drive Series



伺服一体机是驱动与伺服电机的完美结合;它完美融合了伺服电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closedloop control

Customizable drive function

Customizable motor parameters

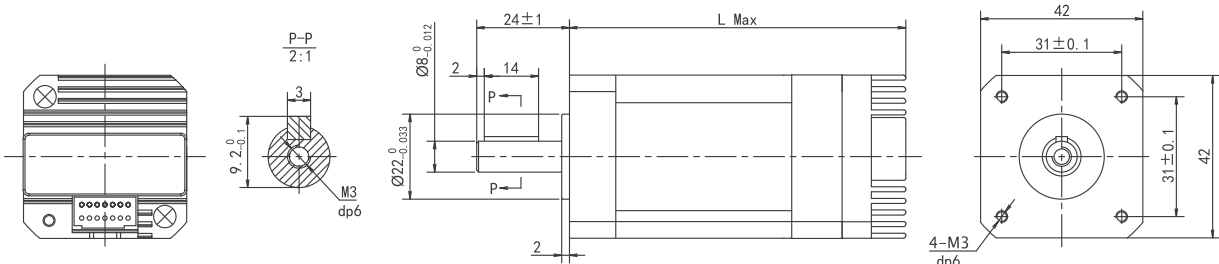
Customizable screw

■ 技术数据 Electrical Specifications

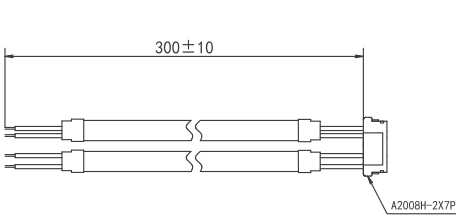
型号 Series Model	相数 Number of Phase	极数 Number of Poles	电压 Input Voltage (V)	额定功率 Rated Power (W)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (Rpm)	额定电流 Rated Current (A)	机身长L Motor Length L (mm)
17NYTT485030	3	10	48	50	0.16	3000	1.6	87
17NYTT243030	3	10	24	30	0.1	3000	1.8	82

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



(控制接口定义)

A2008H-2X7P	线规型号
1 红 VCC +24VDC	AWG22 UL1430
2 黑 GND-	
3 黄 PUL+	K/VVO 0.15*7P
4 黄/黑 PUL-	
5 橙 DIR+	
6 橙/黑 DIR-	
7 绿 ENA+	

A2008H-2X7P	线规型号
8 绿/黑 ENA-	K/VVO 0.15*7P
9 白 ALM+	
10 白/黑 ALM-	
11 灰 AIN_5V	
12 灰/黑 AIN_10V	
13 棕 RS485B	
14 棕/黑 RS485A	

17SYTT(□42mm) - Integrated Drive Series



伺服一体机是驱动与伺服电机的完美结合;它完美融合了伺服电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closedloop control

Customizable drive function

Customizable motor parameters

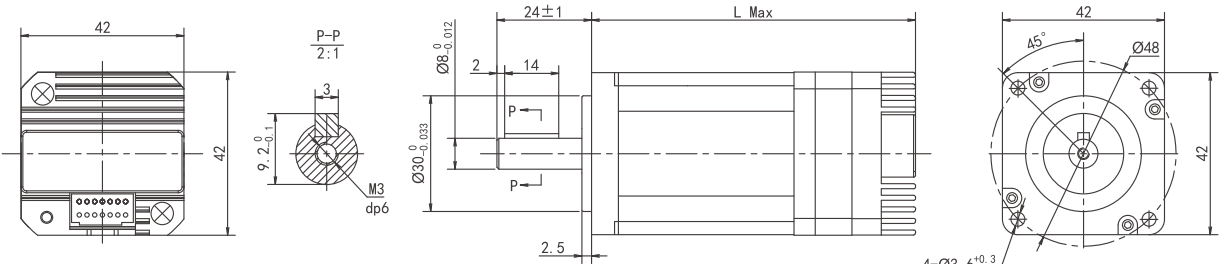
Customizable screw

■ 技术数据 Electrical Specifications

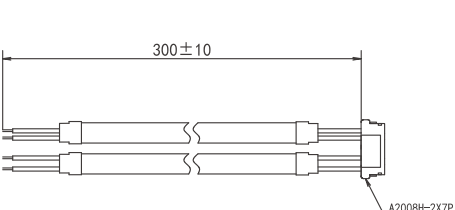
型号 Series Model	相数 Number of Phase	极数 Number of Poles	电压 Input Voltage (V)	额定功率 Rated Power (W)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (Rpm)	额定电流 Rated Current (A)	机身长L Motor Length L (mm)
17SYTT485030	3	10	48	50	0.16	3000	1.6	84
17SYTT243030	3	10	24	30	0.1	3000	1.8	79

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note:We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



(控制接口定义)

A2008H-2X7P	线规型号
1 红 VCC +24VDC	AWG22 UL1430
2 黑 GND-	
3 黄 PUL+	K/VVO 0.15*7P
4 黄/黑 PUL-	
5 橙 DIR+	
6 橙/黑 DIR-	
7 绿 ENA+	

A2008H-2X7P	线规型号
8 绿/黑 ENA-	K/VVO 0.15*7P
9 白 ALM+	
10 白/黑 ALM-	
11 灰 AIN_5V	
12 灰/黑 AIN_10V	
13 棕 RS485B	
14 棕/黑 RS485A	

24SSTT(□60mm) - Integrated Drive Series



伺服一体机是驱动与伺服电机的完美结合;它完美融合了伺服电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closedloop control

Customizable drive function

Customizable motor parameters

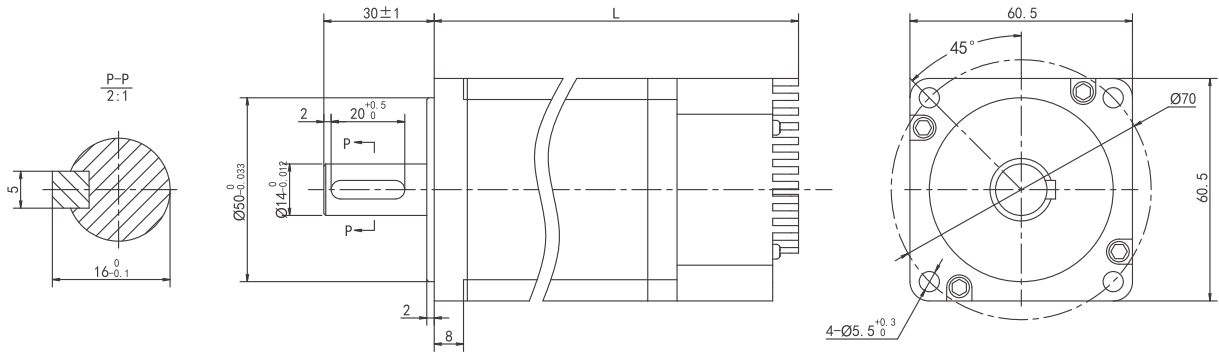
Customizable screw

■ 技术数据 Electrical Specifications

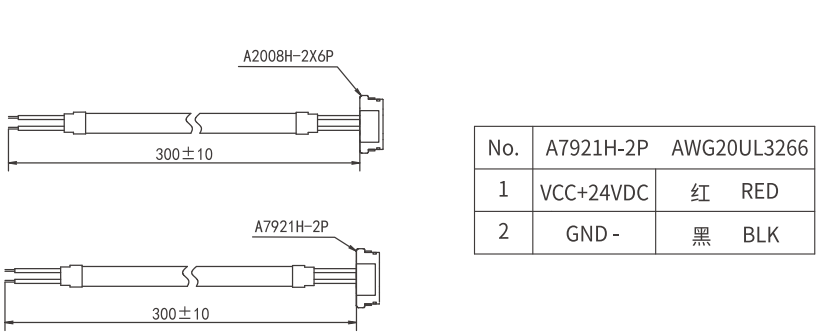
型号 Series Model	相数 Number of Phase	极数 Number of Poles	电压 Input Voltage (V)	额定功率 Rated Power (W)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (Rpm)	额定电流 Rated Current (A)	机身长L Motor Length L (mm)
24SSTT482030	3	10	48	200	0.64	3000	5.5	101
24SSTT484030	3	10	48	400	1.27	3000	11	115
24SSTT242030	3	10	24	200	0.64	3000	11	101

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



No.	A7921H-2P	AWG20UL3266
1	VCC+24VDC	红 RED
2	GND -	黑 BLK

(控制接口定义)

No.	A2008H-2X6P	K/VVO 0.15*7P
1	PUL+	黄 YEL
2	PUL-	黄/黑 YEL/BLK
3	DIR+	橙 ORG
4	DIR-	橙/黑 ORG/BLK
5	ENA+	绿 GRN
6	ENA-	绿/黑 GRN/BLK
7	ALM+	白 WHT
8	ALM-	白/黑 WHT/BLK
9	AIN_5V	灰 GRY
10	AIN_10V	灰/黑 GRY/BLK
11	RS485A	棕 BRN
12	RS485B	棕/黑 BRN/BLK

32SHTT(□80mm) - Integrated Drive Series



伺服一体机是驱动与伺服电机的完美结合;它完美融合了伺服电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closedloop control

Customizable drive function

Customizable motor parameters

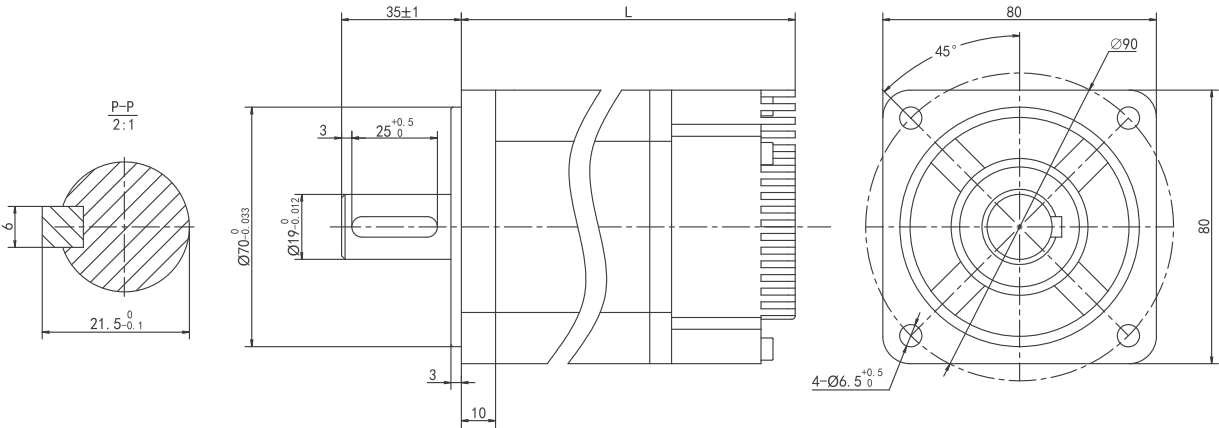
Customizable screw

■ 技术数据 Electrical Specifications

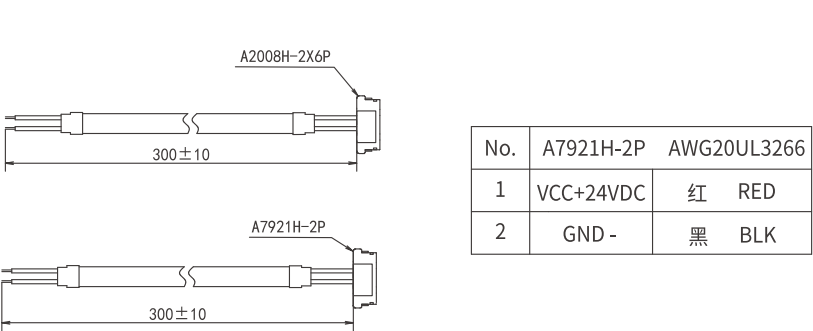
型号 Series Model	相数 Number of Phase	极数 Number of Poles	电压 Input Voltage (V)	额定功率 Rated Power (W)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (Rpm)	额定电流 Rated Current (A)	机身长L Motor Length L (mm)
32SHTT482515	3	10	48	250	1.6	1500	7.5	116
32SHTT483715	3	10	48	375	2.4	1500	10.5	131
32SHTT484024	3	10	48	400	1.6	2400	11.1	116

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer’s requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



No.	A7921H-2P	AWG20UL3266
1	VCC+24VDC	红 RED
2	GND -	黑 BLK

(控制接口定义)

No.	A2008H-2X6P	K/VVO 0.15*7P
1	PUL+	黄 YEL
2	PUL-	黄/黑 YEL/BLK
3	DIR+	橙 ORG
4	DIR-	橙/黑 ORG/BLK
5	ENA+	绿 GRN
6	ENA-	绿/黑 GRN/BLK
7	ALM+	白 WHT
8	ALM-	白/黑 WHT/BLK
9	AIN_5V	灰 GRY
10	AIN_10V	灰/黑 GRY/BLK
11	RS485A	棕 BRN
12	RS485B	棕/黑 BRN/BLK

34SSTE(□86mm) - Integrated Drive Series



伺服一体机是驱动与伺服电机的完美结合;它完美融合了伺服电机和驱动技术于一体,不仅可以节约安装空间,同时把接线化繁为简,为您节省设计成本和生产成本。

- 小体积集成化

伺服算法闭环控制

驱动功能可定制

电机参数可定制

可定制丝杆
- Compact integration

Servo algorithm closedloop control

Customizable drive function

Customizable motor parameters

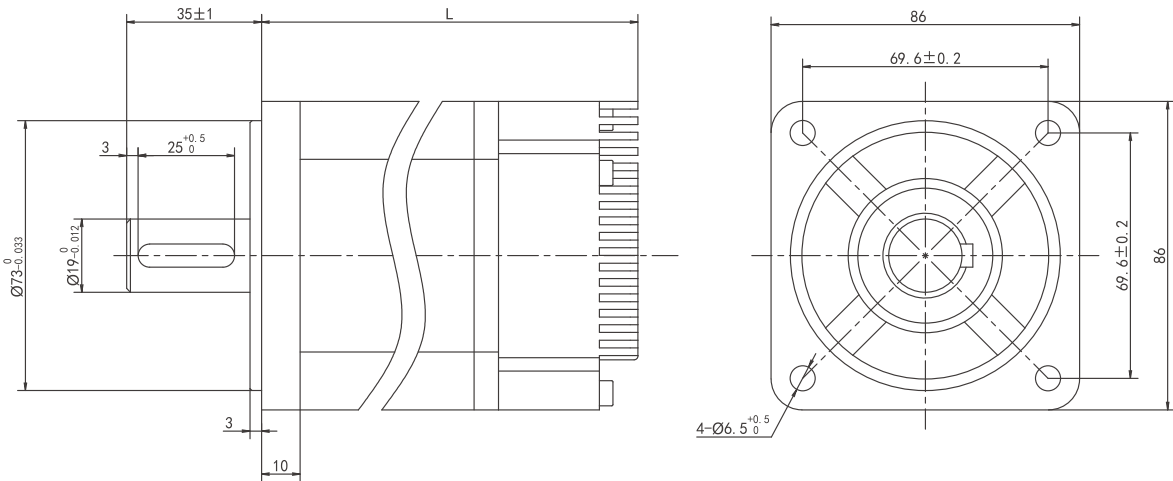
Customizable screw

■ 技术数据 Electrical Specifications

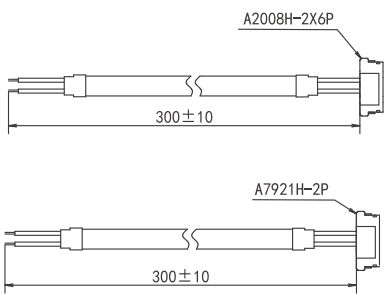
型号 Series Model	相数 Number of Phase	极数 Number of Poles	电压 Input Voltage (V)	额定功率 Rated Power (W)	额定转矩 Rated Torque (N.m)	额定转速 Rated Speed (Rpm)	额定电流 Rated Current (A)	机身長L Motor Length L (mm)
34SSTE483830	3	8	48	380	1.2	3000	10.5	115

*以上仅为代表性产品, 派生产品可根据客户要求制作 *Note: We can manufacture products according to customer's requirements.

■ 外形图 Dimensions(单位Unit: mm)



■ 接线图 Wiring Diagram



No.	A7921H-2P	AWG20UL3266
1	VCC+24VDC	红 RED
2	GND -	黑 BLK

(控制接口定义)

No.	A2008H-2X6P	K/VVO 0.15*7P
1	PUL+	黄 YEL
2	PUL-	黄/黑 YEL/BLK
3	DIR+	橙 ORG
4	DIR-	橙/黑 ORG/BLK
5	ENA+	绿 GRN
6	ENA-	绿/黑 GRN/BLK
7	ALM+	白 WHT
8	ALM-	白/黑 WHT/BLK
9	AIN_5V	灰 GRY
10	AIN_10V	灰/黑 GRY/BLK
11	RS485A	棕 BRN
12	RS485B	棕/黑 BRN/BLK

NOTE